Service Manua

PT-102N/GN/AN/SN

chassis No. Q5



GN U. K. Only AN Australia Only SN Saudi Arabia Only

The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service manual.

Specifications

Power Source:

AC 220V ~ 240V, 50/60 Hz

(PT-102N/102SN)

AC 240V, 50 Hz (PT-102GN/102AN)

Power Consumption:

179W (average)

Projection Tube:

7 inches (179 mm) specially developed

High-Brightness liquid cooled

CRTs (R, G, B).

Lenses: Resolution: F 1.0 f145 Three Lenses (HYBRID) Video..... 650 TV Lines (typical)

RGB...... 1000 TV Lines (typical)

Video Imput Level:

 1 ± 0.3 Vp-p 75Ω

Line in/out Level:

 $1 \pm 0.3 \text{Vp-p}$ 75Ω or high impedance

RGB Input Level

 $0.7 \pm 0.3 \text{Vp-p} 75\Omega$ R:

G:

 $0.7 \pm 0.3 \text{Vp-p}$ 75Ω

(G SYNC: 1 ± 0.3 Vp-p 75Ω) $0.7 \pm 0.3 \text{Vp-p} 75\Omega$

 $H \cdot H/V$: 0.3 ~ 6V, high impedance

0.3 ~ 6V, high impedance

Screen Size:

1270 ~ 3048mm (50 ~ 120 inch) 50" (1524 mm) Picture size:

Throw Distance:

65 3/4 inches (1670 mm)

72" (1829 mm) Picture size: 87.0 inches (2210 mm)

100" (2540 mm) Picture size:

119 19/32 inches (3037 mm) 120" (3048 mm) Picture size: 143 3/32 inches (3635 mm)

500 lumens typical (at white peak)

Light Flux:

Operating Ambient

Temperature:

 $32^{\circ}F \sim 104^{\circ}F (0^{\circ}C \sim +40^{\circ}C)$

Operating Ambient

Dimensions:

20% ~ 80% Humidity:

Supplied Accessories: AC Cord

Mounting kit (1 set)

TMX13917, TMX13919 SPACER G:

B, R: TMX13918, TMX13920

Height: 290 mm (11 13/32 inch)

Width: 576 mm (22 11/16 inch) 60.0 mm (23 29/32 inch)

Depth: 77 lbs. (35 kg)

Weight:

Specifications are subject to change without notice. Weight and dimensions shown are approximate.

anasonic

Video Camera

TV Tuner

RGB Computer

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FEATURES

1 Superb bright picture: High luminance output: 5 Improved raster quality: High voltage regulation characteristic: 0.3 M Ω 500 lumens (typical, at white peak) 6 Ceiling/floor installation and front/rear projection easily 1000 Lines (RGB) (typical), 2 Superb resolution: selectable. 650 Lines (Video) (typical) · Ceiling mount/front projection RGB character reproduction: · Ceiling mount/rear projection equivalent to 2000 characters • Floor placement/front projection · Ceiling mount rear projection with mirror (90×25) · Floor placement rear projection with mirror 3 Compact size and light weight (35 kg, 77 lbs), for easy 7 Wide-range computer compatibility placement/installation. 8 Four broadcast system capability 4 Compatibility with various signal input sources: PAL, SECAM, NTSC and M-NTSC 4.43 VTR/VCR Video Disk

SAFETY PRECAUTIONS

GENERAL GUIDELINES

- 1. It is advisable to use an isolation transformer in the AC line supply before servicing this model.
- When servicing observe the original lead dress, especially in the high voltage circuit. In case of a short circuit, replace every part which has overheated.
- After servicing observe that all protective devices such as insulation barriers, fish paper, shields, isolation networks and fuses are properly installed.
- 4. Before turning the receiver on, the resistance between the B+ line and chassis ground should be checked. Connect the ⊖ side of an ohmmeter to the B+ line and the ⊕ side to chassis ground.

Each line should have more resistance than specified, as follows:

B+ (B-) Line	Minimum Resistance
206V	10kΩ
116V	3kΩ
27V	300Ω
17V	200Ω
12V	100Ω
10V	3Ω
* -17V	150Ω

- * Side to ground
- 5. If the set is not intended to be used for a long time, the power cord should be unplugged from the AC line outlet.
- 6. Potentials, as high as 32.5 kV are present when this set is in operation. Removal of the covers involves the danger of a shock hazard from the set's power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high-voltage equipment.
 - Always discharge the anode of the projection tube to the set chassis before handling the tube.
- 7. After servicing, make the following leakage current checks to prevent a shock hazard.

LEAKAGE CURRENT COLD CHECK

- Unplug the AC cord and connect a jumper between the two plug prongs.
- 2. Turn on the set.
- 3. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metallic part such as screwheads, input terminals, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 490 k Ω and 9 M Ω . When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK (See Fig. 1)

- Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 2 k Ω , 10W resistor, in series with an exposed metallic part on the receiver and an earth such as a water pipe.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- 4. Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 1.4 volts RMS. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

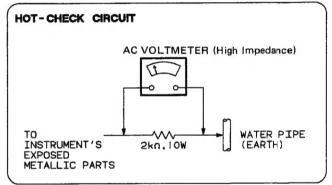


Fig. 1

X-RADIATION

WARNING:

The potential source of X-Radiation in the color Projection System is the High Voltage section and the projection tubes.

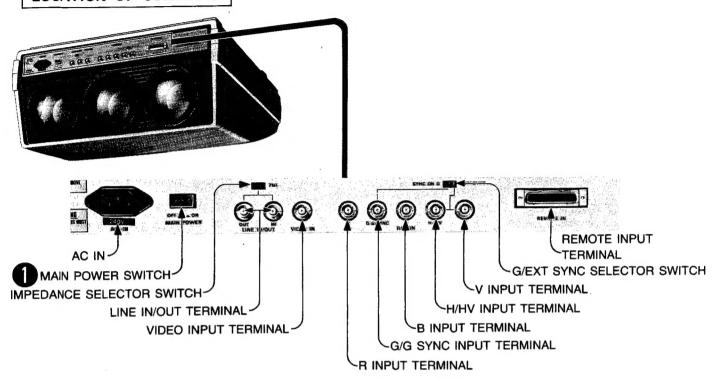
NOTE: It is important to use an accurate, periodically, calibrated high voltage meter.

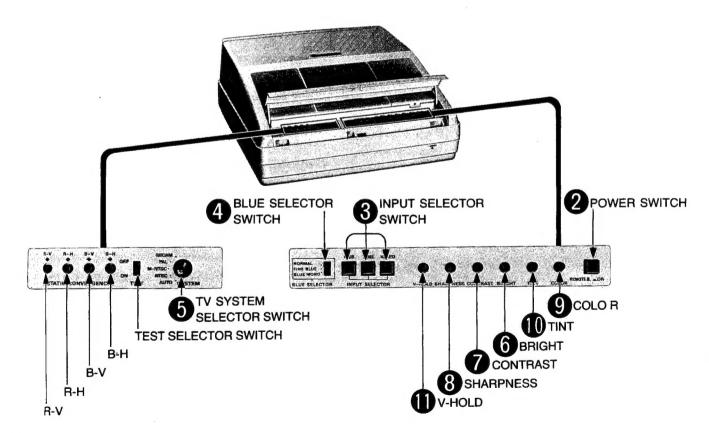
- 1. Turn the Brightness control fully counterclockwise.
- Measure the High Voltage. The high voltage meter should indicate 32 kV ± 0.5 kV. If the upper meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. (Refer to high voltage adjustment in the manual.)
- 3. To prevent an X-Radiation possibility, it is esential to use the specified projection tube only.
- 4. To prevent exposure to X-Radiation, the projection tube shield must be kept in place with power applied to the set.

WARNING: When using a projection tube test jig for service, ensure that jig is capable of mandling 32.5 kV without causing X-Radiation.

LOCATION OF CONTROLS, OPERATION AND CONNECTING OPTIONAL EQUIPMENT

LOCATION OF CONTROLS





OPERATION

To operate the projector switches ① and ② must be turned ON, and switch ③ must be set to the proper inputsignal type.

Note: When the separately supplied remote controller (ET-12R) is connected to the video projector, switches ② through ④ and ⑥ through ⑩ are inoperable. Please use the remote controller for these functions.

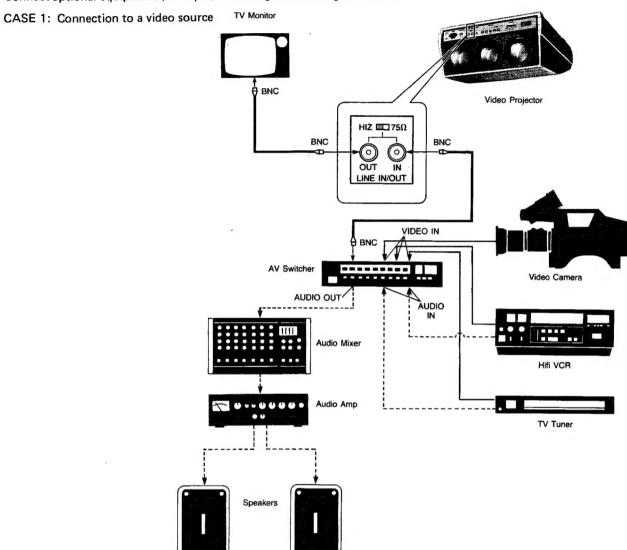
No.	Switch.	-	PURPOSE			
0	MAIN POWER SWITCH	OFF L ON MAIN POWER	Switches main power supply ON/OFF.			
2	POWER SWITCH	Power ON/OFF switch. Power ON/OFF switch. This switch is set to the OFF position, when the remote con is in use. RGB LINE VIDEO VIDEOPush this button to view signals input via the VID input terminal. LINEPush this button to view signals input via the Line input terminal. RGBPush this button to view signals input via the R input terminal. This switch is operable only when RGB signals are being ceived. Use this switch when the blue portion of the picture weak. NORMALNormal blue. FINE BLUEA finer , easier-on-the-eye, blue. BLUE MONOWhite picture on a blue back ground. Note: When Linear or TTL RGB signals are input at inapp				
3	INPUT SELECTOR SWITCHES		LINEPush this button to view signals input via the LINE input terminal. RGBPush this button to view signals input via the RGB			
4	BLUE SELECTOR SWITCH	FINE BLUE .	NORMAL ···Normal blue. FINE BLUE ···A finer , easier-on-the-eye, blue.			
5	TV SYSTEM SELECTOR SWITCH	SECAM PAL. M-NTSC. NTSC. AUTO SYSTEM	This switch is normally set at AUTO. However, if the picture quality is bad due to the use of dubbed tapes, etc., reception may not be satisfactory. In that case, set the switch to the appropriate input signal using a screwdriver.			

USE OF CONTROLS

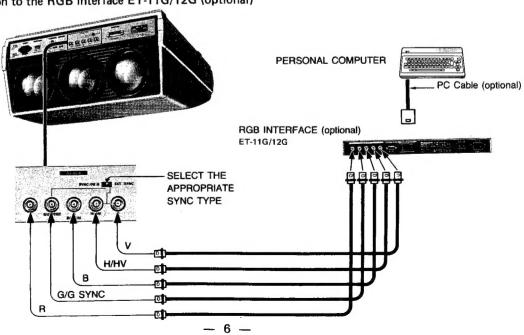
6	BRIGHT	The click-stop indicates standard, brightness. Adjust to the appropriate brightness level for current viewing conditions. Decrease Increase Adjust to a desirable color intensity. Decrease Increase To obtain a sharper picture rotate the control clockwise. For a softer picture rotate the control counter-clockwise. Adjust to a comfortable viewing level, a slightly less intense picture is easier on the eyes.			
7	CONTRAST				
SHARPNESS For a softer picture rotate the control counter-clockwise.					
9	COLOR	Low High picture is easier on the eyes.			
1	TINT	Adjust for proper skin tone.			
O	V-HOLD	If the picture rolls, as shown, adjust the control UP or DOWN until it UP DOWN stabilises.			

CONNECTING OPTIONAL EQUIPMENT

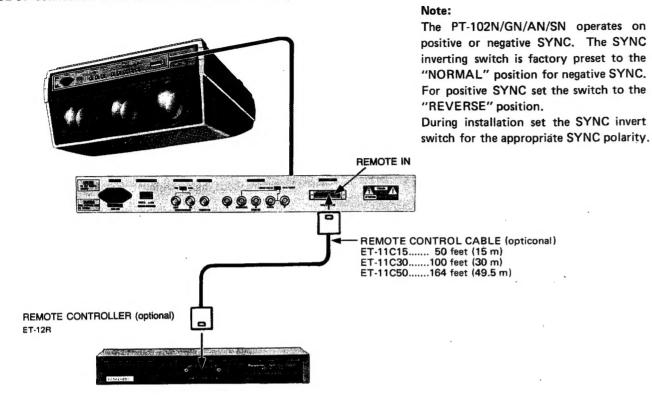
Connect optional equipment (example) according to following illustration.



CASE2: Connection to the RGB interface ET-11G/12G (optional)



CASE 3: Connection to the remote controller ET-12R (optional)



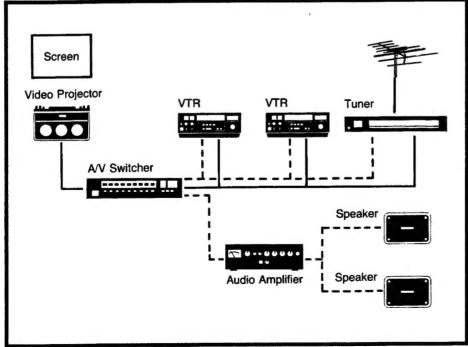
EXAMPLE 1

Presentation System

This is the most orthodox VTR playback system. Various variations can be developed on this system according to the required applications.

Applications:

- Conference Rooms
- Classrooms
- Public Areas

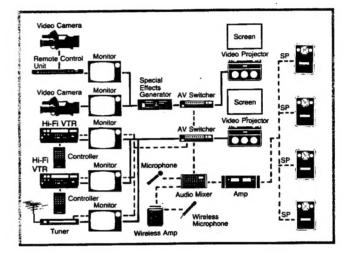


EXAMPLE 2

Entertainment System 1

This system is ideal for use for parties, ceremonies, etc. to be held in large places. Great effects are possible with the powerful video images from colour video projectors, when combined with video carneras and audio equipment. Applications:

- Banquet Halls
- Lounges Discos

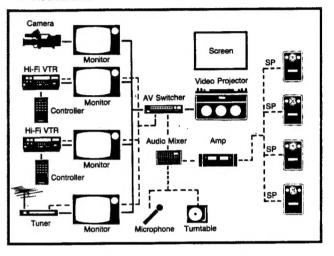


EXAMPLE 3

Entertainment System 2

This system is particularly suited to such recreational facilities as bars, restaurant, dance clubs, etc. A wide variety of atmospheric effects can be produced. When used together with stereo sound, a relaxed aura of "background video" and "mood" music, or dynamic video images with music with a beat to match. Applications:

- Lounges Discos
- Restaurants



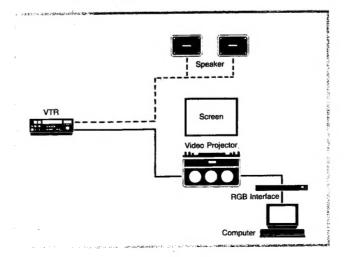
EXAMPLE 4

Business Application

This system is designed to concentrate on data presentations for business, conferences, showrooms, etc. Its superb resolution and capacity to match various types of personal computers make it ideal for upgrading office-automation systems and diversified video/data services.

Applications:

- Conference Rooms
- Training Areas
- Information Displays



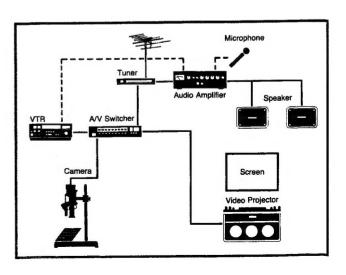
EXAMPLES

Educational System

Ideal for a wide range of educational activities, particularly as an effective teaching

Applications:

- Classrooms
- Auditoriums
- Lecture Halls



DISASSEMBLY INSTRUCTIONS

1. HOW TO REMOVE THE TOP COVER

- 1) Open the cover of control panel.
- 2) Remove 3 screws (A) in fig. 2.
- 3) Then pull the Top Cover toward the back side of the deck and carefully lift it for removal.

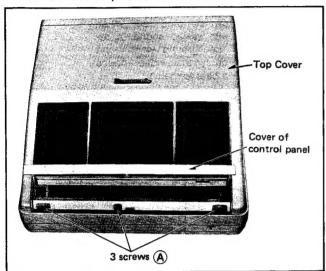


Fig. 2

2. HOW TO REMOVE THE LENS GRIL

- 1) Remove 4 screws (B) in fig. 3.
- 2) Remove the Lens Gril.

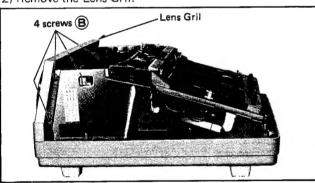


Fig. 3

3 HOW TO REMOVE THE CONVERGENCE CONTROL COVER

- 1) Open the cover of control panel.
- 2) Remove a 1 screw © in fig. 4.
- 3) Then pull the Convergence Control Cover toward the control panel side for removal.

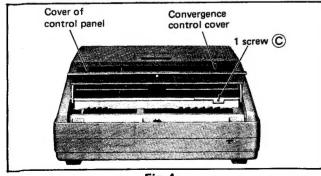


Fig. 4

4. HOW TO OPEN THE PRINTED CIRCUIT BOARD

1) C and D. V-Boards

- Loosen 2 screws (D) to counterclockwise by 90° in
- The lift the rear of the chassis to open the "C", "D" V-Board

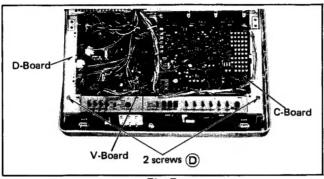


Fig. 5

2) "A" · "B"-Boards

- Remove a 1 screw © in fig. 6, and remove the P.C-Board fixing metal.
- Then carefully pull and lift the "A" and "B" Boards for removal

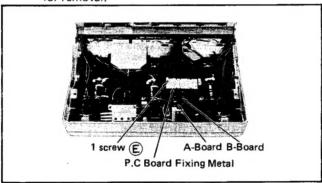
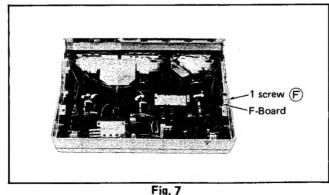


Fig. 6

3) "F"-Board

• Remove a 1 screw (F) in fig. 7, then open the F"-Board.



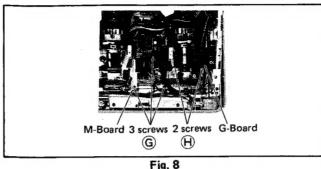
4) "M"-Board

- Remove 3 screws (G) in fig. 8.
- Then pull the "M"-Board toward the back side of the deck, and carefully lift it to open the "M"-Board.

5) "G"-Board

PT-102N/GN/AN/SN PT-102N/GN/AN/SN

- Remove 2 screws (H) in fig. 8.
- Then pull the "G"-Board toward the back side of the deck, and carefully lift it to open the "G"-Board.



6) "K"-Board

- Remove the Front Panel.
- Then carefully pull and lift the Terminal Panel for removal in fig. 9.
- Remove 2 screws (1) in fig. 10.
- Then lift and pull out the "K"-Board.

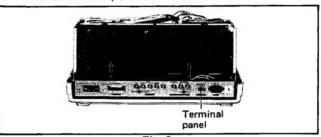


Fig. 9

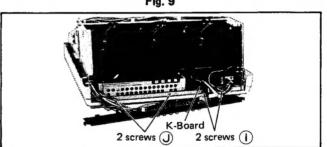


Fig. 10

7) "P" and "Q"-Boards

- Remove the Front Panel and Terminal Panel.
- Remove 2 screws (J) in fig. 10.
- Remove 4 screws (K) in fig. 11, and lift the box cover.
- Then open the "P" and "Q"-Boards.

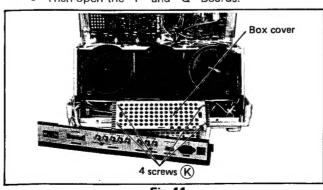


Fig. 11

5. HOW TO REMOVE THE PROJECTOR TUBE (WHEN RED)

- 1) Remove the two retaining 2 screws (L) from the tube shown in fig. 12.
- 2) Remove the lens grill shown in fig. 3. (Remove 4 screws
- 3) Remove the anode lead (M) from the high voltage distributor shown in fig. 13.
- 4) Remove the LR printed circuit board (N) in fig. 13.
- 5) Remove the retaining screw of the neck shield (1) and remove the neck shield P in fig. 13.
- 6) Remove the retaining screw of the deflecting coil @ and draw out the centering magnet (R) and the diffecting coil (\$) in fig. 13,
- 7) Remove the grounding lead from the tube.
- 8) Remove the 4 retaining screws (T) from the tube and draw it out shown in fig. 14.

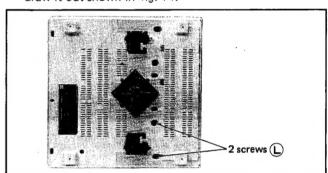


Fig. 12

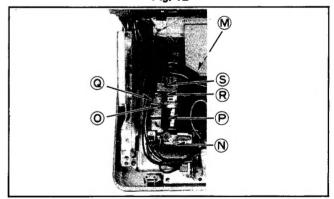


Fig. 13

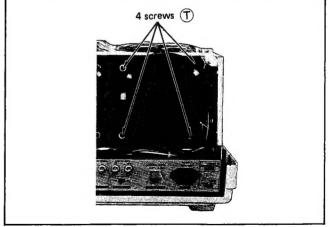
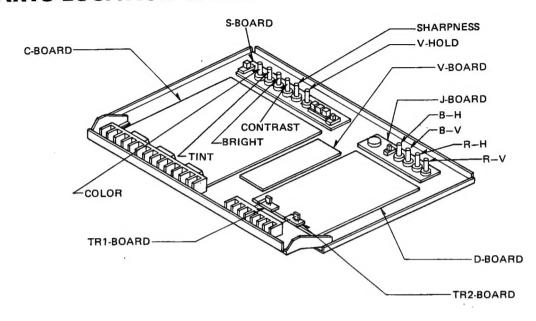
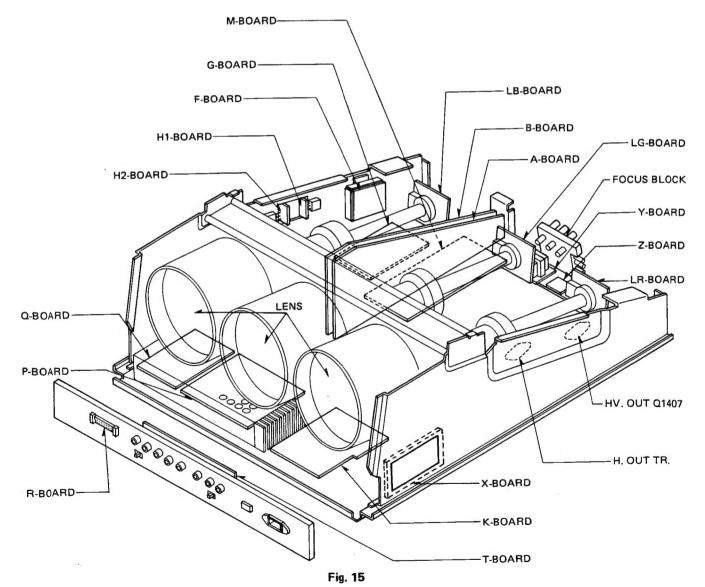


Fig. 14

MAIN PARTS LOCATION CHART





CAUTIONS FOR SERVICING

HORIZONTAL OSC. DISABLE CIRCUIT TEST

This test must be made as a final check before the set is returned to the customer.

- With the chassis case removed, supply a nominal 120V
 AC to the set, and turn the set on.
- 2. Set the customer controls to normal operating positions.
- Locate Q1404 and short it's collector to the emitter with a jumper wire. Confirm that this shorts the high voltage and that the raster disappears.
- 4. If this does not occur, the Horizontal Osc. Disable Circuit is not operating. Follow the Horizontal Oscillator Disable Circuit Repair Procedures before the set is returned to the customer.

NOTE: The power on/off switch must be turned off and then on to restore operation.

REPAIR PROCEDURES OF THE HORIZONTAL OSCILLATOR DISABLE CIRCUIT

- Connect a DC voltmeter between capacitor C1413 + on the D-PCB and chassis ground. If approximately 150V is not present at that point find the cause. Check R535, R591, R1430, R534, C1413 and D1408.
- Connect a DC voltmeter between capacitor C518 + on the C-PCB and chassis ground. C518 + potential varies from nearly 0V approx to nearly 4V approx when shorting Q1404 (C-E). If this does not occur, find the cause. Check R530, R531, R537, R538, R539, R540, R541, R542, R543, R544, C513, C518, C519, C520, D507, Q510, Q511 and Q512.
- 3. Carefully check the above specified parts and related circuits and parts. When the circuit is repaired, try the Horizontal Oscillator Disable Circuit Test again.
- 4. In case that at least one of R535, R591, R534, D507, and the FBT is replaced follow the Adjustment Procedure for the Horizontal Oscillator Disable Circuit as follows.

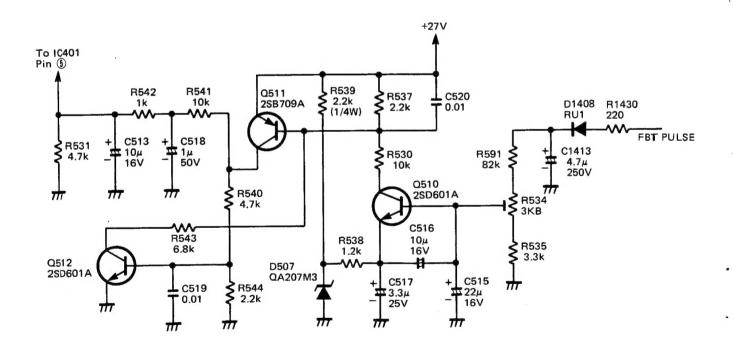


Fig. 16

ADJUSTMENT PROCEDURE OF THE HORIZON-TAL OSCILLATOR DISABLE CIRCUIT

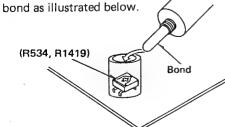
Replace R534 (Protector Adj.) and R1419 (HV Adj.) before this adjustment. But R534 (Protector Adj.) and R1419 (HV Adj.) are only manufactures specified parts.

- Turn on the Power Switch, and receive a monoscope pattern signal.
- 3. Connect a short jumper between TPM1 and TPM2 .
- 4. Tell where to connect the voltage meter and high voltage prove.
- 5. Adjust R1419 (HV Adj.) the Brightness control and the Contrast control to obtain (33.5 kV \pm 0.3 kV) on the high-voltage meter, and obtain (1.8V \pm 0.05V) on the voltage meter.

CAUTION:

Use only a Static Type of High Voltage Meter which has a 5% tolerance at 40 kV.

- 6. Adjust R534 (Protector Adj.) slowly clockwise until shut-down occurs and hold that position.
- 7. Turn off the power switch.
- 8. Adjust R1419 (HV Adj.) slightly clockwise.
- 9. Turn on the power switch.
- 10. Adjust R1419 (HV Adj.) slowly counter-clockwise until shut-down occurs High voltage should be 33.5 kV ± 0.5 kV, and 1.8V ± 0.05V on the voltage meter just before shut-down.
- 11. If the readings in step 10 are not confirmed, repeat steps 5, 6 and 7 again.
- 12. Turn off the power switch.
- 13. Disconnect the short jumper between TPM1 and TPM2.
- 14. Set the 75/HIZ selector SW. (S1) to 75 Ω .
- 15. Turn on the power switch, and confirm that the high voltage is 32.0 kV \pm 0.5 kV.
- Confirm that the high voltage does not change by turnning of the Brightness and Contrast controls.
- 17. Fix R534 (Protector Adj.) and R1419 (H.V Adj.) with



DISCONNECTION OF ANODE LEAD FROM THE DISTRIBUTER

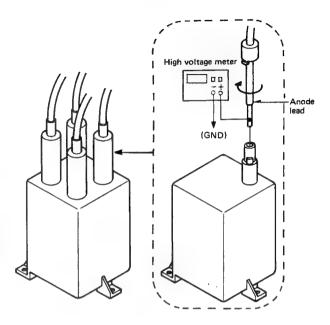
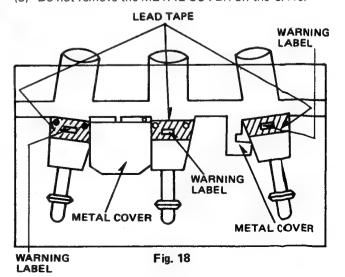


Fig. 17

X-RAY PRECAUTIONS

The front area (between the projection tube and the lens.) is enclosed by a metal box to ensure positive safety during abnormal and normal conditions when checking and doing repair work. To fully ensure safety, however, the following precautions must be observed.

- (1) Do not remove the lens.
- (2) Be sure to turn OFF the power when the lens must be removed and when you could be exposed to X-rays during cleaning and other routine servicing.
- (3) Do not remove the lens to check the projection tube for operation by watching it directly.
- (4) Do not remove the LEAD TAPE on the CRTs.
- (5) Do not remove the METAL COVER on the CRTs.



FIELD ADJUSTMENTS

Note: 1. When a screwdriver is needed during adjustment, use a non-metallic screwdriver to prevent unexpected short-circuits.

 Transformer core position. (Application for both Field Adjustment and General Alignment.) Unless otherwise noted, a transformer core which has two tuning peak points should be adjusted at the lower position as shown in Fig. 19.

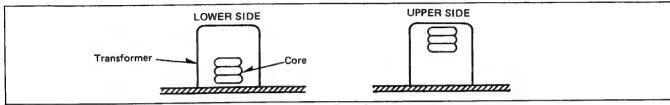


Fig. 19

1. DC VOLTAGE CONFIRMATION

- 1) Set the following controls at the positions indicated.

 Brightness control VR (R3009) Minimum

 Contrast control VR (R3011) Minimum
- 2) Connect **B** DC voltmeter between each Test Point and TPC2 (earth).
- Check below for the indicated test points and their specified voltages. (See Table 1)

Test Points	Voltage
Pin ③ of connector D14	115.5V ± 1.3V
Pin 6 of connector C4	115.5V ± 1.3V
Pin 5 of connector C4	26V ± 1.0V
Pin ② of connector C4	17V ± 1.0V
Pin ③ of connector C4	−17V±1.0V
TPM1	12V ± 0.5V

Table 1

2. HORIZONTAL CIRCUIT ADJUSTMENT

- 1)-1. Connect a Resistor Jumper (10k Ω) between TPB5 and TPB11.
- 1)-2. Connect a Jumper between TPB10 and earth.

2) VIDEO MODE NTSC

- 1. Receive a monoscope pattern signal (NTSC).
- 2. Connect a capacitor (1 μ F/50V) between **TP31** and earth.
- 3. Adjust the NTSC H. Hold control VR (R520) to stabilize the picture.

3) VIDEO MODE (PAL/SECAM)

- 1. Receive a Phillips pattern signal (PAL).
- 2. Connect a capacitor (1 μ F/50V) between **TP31** and earth.
- 3. Adjust the PAL/SECAM H. Hold control VR (R519) to stabilize the picture.

4) RGB MODE

- Set the Input Signal Selestor SW. (S3003) to the RGB position.
- 2. Receive an RGB signal from an RGB signal generator. (The horizontal frequency of the RGB signal should be in 15.750 kHz \pm 0.25 kHz range.).
- 3. Connect a capacitor (1 μ F/50V) between **TP31** and earth.
- 4. Adjust the RCB H. Hold control VR (R523) to stabilize the picture.

3. SUB CONTRAST ADJUSTMENT (1)

- Set the following controls at the position indicated.
 Colour control VR (R3002) Minimum Sub Contrast control VR (R353) Centre
- 2) Receive a colour bar signal.
- 3) Connect an oscilloscope between TPA14 and earth.
- Adjust Sub Contrast control VR (R353) to achieve
 0.7V ± 0.05V on the oscilloscope as shown in Fig. 20.

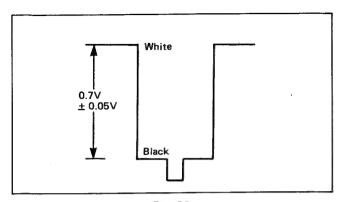


Fig. 20

4. SUB CONTRAST ADJUSTMENT (2)

- 2) Receive an NTSC colour bar signal.
- 3) Remove the D11 connector. (D-PCB).
- 4) Connect an oscilloscope between TPB7 and earth.
- 5) Adjust Sub Contrast control VR (R1103) to achieve 2.5V ± 0.2V on the oscilloscope as shown in Fig. 21.
- Set Power switch to OFF position and insert the D11 connector.

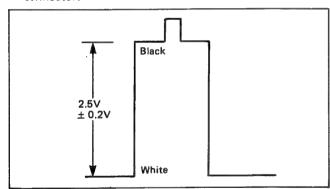


Fig. 21

5. VERTICAL LINEARITY ADJUSTMENT

1) Set the following controls and switches at the positions indicated.

Input signal Selector SW. (S3003)VIDEO
TV-System Selector SW. (S8002) AUTO
Brightness control VR (R3009)
Contrast control VR (R3011) Maximum
Vertical Linearity control VR (R442) Centre

- 2) Receive an PAL Phillips pattern signal.
- 3) Adjust the Vertical Linearity control VR (R442) until the circle of the pattern is symmetrical from top to bottom (real circle).

6. VERTICAL HEIGHT ADJUSTMENT

Note: At the 120 inch size.

 Set the following controls and switches at the positions indicated.

Input Signal Selector SW. (S3003) LINE
TV-System Selector SW. (S8002) AUTO
G/EXT Sync Selector SW. (S2) Ext. Sync.
Video V-Size control VR (R428) Centre
NTSC Sub V-Size control VR (R432) Centre
RGB V-Size control VR (R437) Centre
Brightness control VR (R3009)
Contrast control VR (R3011) Maximum

2) VIDEO MODE

- 1. Receive a PAL Phillips pattern signal.
- 2. Adjust the Video V-Size control VR (R428) to achieve a pattern height of 1957 mm.
- 3. Set the Input Signal Selector SW. (S3003) to VIDEO and receive an NTSC monoscope pattern signal.
- 4. Adjust the NTSC Sub V-Size control VR (R432) to achieve a pattern height of 1957 mm.

3) RGB MODE

- 1. Set the Input Signal Selector SW. (S3003) to RGB.
- 2. Receive an RGB signal from an RGB signal generator.
- 3. Adjust the RGB V-Size control VR (R437) to achieve a pattern height of 1957 mm.

7. HORIZONTAL WIDTH ADJUSTMENT

1) Set the following controls and switches at the positions indicated.

Input Signal Selector SW. (S3003)
TV-System Selector SW. (S8002) AUTO
G/EXT Sync Selector SW. (S2) Ext. Sync.
Video H-Size control VR (R1541) Centre
RGB H-Size control VR (R1536) Centre
Brightness control VR (R3009)
Contrast control VR (R3011) Maximum

2) VIDEO MODE

- 1. Receive an PAL Phillips pattern signal.
- 2. Adjust the Video H-Size control VR (R1541) to achieve a pattern width of 2609 mm.

3) RGB MODE

- 1. Set the Input signal selector SW. (S3003) to RGB.
- 2. Receive an RGB signal from an RGB signal generator.
- 3. Adjust the RGB H-Size control VR (R1536) to achieve a pattern width of 2609 mm.

8. RASTER GEOMETRIC ADJUSTMENT

 Set the following controls and switches at the positions indicated.

1/1050
Input Signal Selector SW. (S3003)
Brightness control VR (R3009)
Contrast control VR (R3011) Maximum
Red, Blue Static convergence controls
$VR\;(R8001 \sim R8004)\;.\;.\;.\;.\;.\;.\;.\;.\;.\;.\;Centre$
Green Static convergence controls
VR (R7005 ~ R7006) Centre
Red, Blue Dynamic convergence controls VR (R871,
R873, 876, 878, 880, 882, 884, 885, 887, 890, 892,
R894, 896, 898, 900, 901, 904, 905, 909, 911, 913,
R915, 917, 919, 921, 923, 924, 926, 928, 930, 932,
R935, 937, 939, 941, 943, 7012, 7013) Centre
Red, Blue Top and Bottom Pincushion
compensation VRs (R870, R907) Centre
Green Top and Bottom Pincushion
Compensation VR (R788)
T/B incushion Waveform Adjustment
VRs (R955, R958, R7036) Centre
TV-System Selector SW. (S8002) AUTO

- 2) Receive an NTSC cross hatch pattern signal.
- 3) Connect an oscilloscope between TPC5 and earth.
- 4) Adjust R955, R958 and R7036 to achieve maximum amplitude and confirm that both side of the bow tie pattern are symmetrical (A, B in Fig. 22).

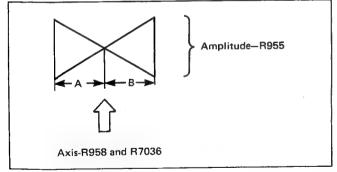


Fig. 22

- 5) Disconnect oscilloscope from TPC5
- 6) Connect an oscilloscope between TPC1 and TPC2 (earth).
- 7) Adjust R787 and R791 to achieve the correct waveform as shown in Fig. 23.
 - a. Both sides of bow tie wave should be symmetrical.
 - b. Peak points should be at the same level.

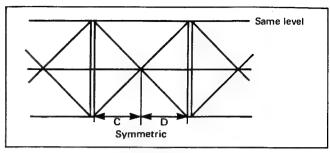


Fig. 23

- 8) Cover the Red and Blue lenses with lens covers.
- Adjust Green Top and Bottom Pincushion Compensation VR (R788) to obtain straight horizontal Green lines from top to bottom.
- 10) If adjusting R788 is insufficient, adjust R7036, R958 and R788 accordingly by the following procedures. (Refer to Fig. 24-A, 24-B).

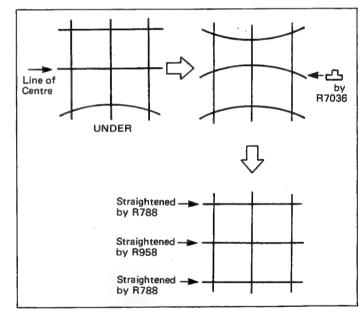


Fig. 24-A

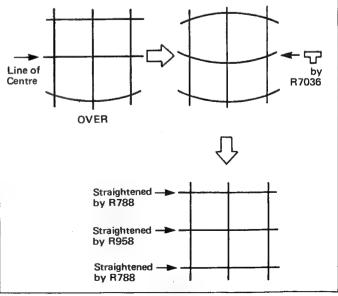


Fig. 24-B

11) Adjust R745 to get staright horizontal lines from top to bottom as shown in Fig. 25.

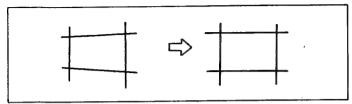
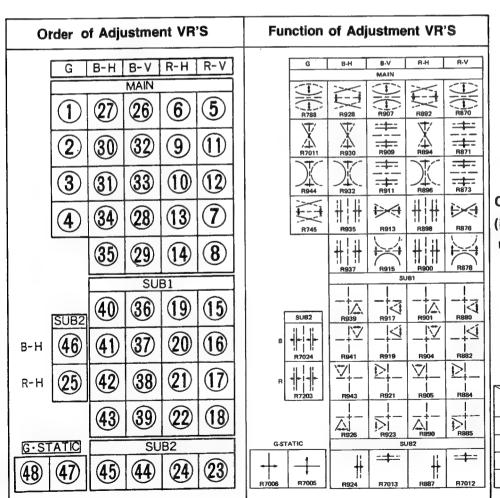


Fig. 25.

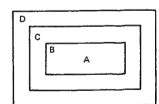
9. CONVERGENCE ADJUSTMENT

- Demagetize the chassis and CRTs using a degaussing coil.
- Adjust all three deflection yokes to converge all horizontal lines at the centre of the screen. Deflection yokes be inserted all the way towards the front side of the CRT.
- 3) Adjust each centring magnet to set the pattern centre to at the geometric centre of the screen.

- Readjust the deflection yoke if any of the horizontal lines are tilted.
- 5) Receive an RGB signal and turn on the TEST SW. (S8001).
- 6) Cover the Blue lens with the lens cover.
- 7) Adjust the convergence as follows.
- 8) The following controls are located on the convergence control board.
- 9) Adjust each of the red convergence adjustment controls in the order of the instructions (5) to (25) in the figure so that the red pattern matches the green pattern.
- 10) Remove the lens cover from the Blue lens and cover the Red lens.
- 11) Adjust each of the blue convergence adjustment controls in the order of the instructions (26) to (46) in the figure so that the blue pattern matches the green pattern.
- 12) Return the red CRT to operation.



CONVERGENCE LIMITS: (in mm from centre of raster centre)



Inch Zone	50''	70''	1 00"	120''
Α	0.4	0.5	0.7	1
В	3.5	5	7	9
С	6	9	12	15
D	6	9	12	15

(mm

10. GK DRIVE ADJUSTMENT

- 2) Remove the D11 connector (D-PCB).
- 3) Receive an NTSC colour bar signal.
- 4) Connect the oscilloscope between TPLG1 and earth.
- 5) Adjust Brightness control VR (R3009) to control the black level, less than B+ (205V) level.
- 6) Adjust G-Drive control VR (R1801) to achieve 130V ± 3V as shown in Fig. 26.

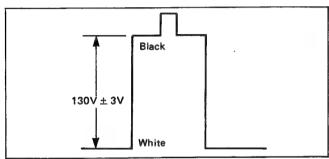
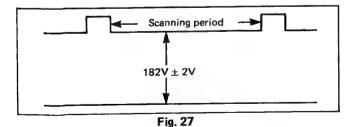


Fig. 26

7) Set Power switch to OFF position and insert the D11 connector

11. CUT OFF ADJUSTMENT

- 1) Set the following controls at the positions indicated.
- 2) Receive an NTSC colour bar signal.
- 3) Set Service switch (S10) to Service position.
- 4) Connect oscilloscope to TPLG1 and earth.
- 5) Adjust Sub Contrast control VR (R353) such that voltage meter reading is 182V ± 2V at the horizontal scanning period.



12. WHITE BALANCE ADJUSTMENT

Note: Do not adjust Focus screen VR (G) and G drive VR (R1801).

- 1) Receive an white pattern signal.
- 2) Set service switch (S10) to the SERVICE position.

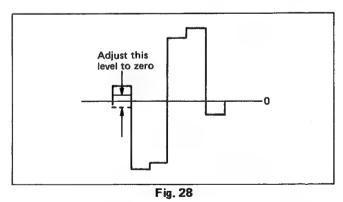
- 3) Set the Focus screen VR (R/B) to the minimum position.
- 4) Adjust Brightness control VR (R3009) so that the picture tube (G) becomes faint light.
- 5) Set service switch (S10) to the NORMAL position and adjust high light, white balance with R drive VR (R1701) and B drive VR (R1901) controls.

13. SUB BRIGHTNESS ADJUSTMENT AND ABL CONFIRMATION

- 2) Connect a digital voltmeter between TPD1 (+) and TPD2 (-).
- 3) Receive a monoscope pattern signal.
- 4) Adjust the Sub Brightness control VR (R1107) to achieve 500 mV \pm 15 mV.
- 5) Set Brightness VR (R3009) and Contrast VR (R3011) controls to maximum then confirm that $1.5V \pm 0.1V$ is present between TPD1 and TPD2.

14. PAL APC ADJUSTMENT

- Receive an PAL colour bar signal and set the Input signal selector SW. (S3003) to the PAL position.
- 3) Connect an oscilloscope between TPA10 and chassis GND
- 4) Adjust PAL APC ADJ. (R619) to achieve waveform shown in Fig. 28.

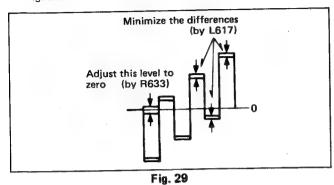


15. PAL DELAY LINE ADJUSTMENT

- 1) Set the following control at the position indicated.

 Colour control VR (R3002) Maximum
- Receive an PAL colour bar signal and set the Input signal selector SW. (S3003) to the PAL position.
- Connect an oscilloscope between TPA12 and chassis GND.

4) Adjust Delay Line Adj. VR (R633) and Delay Line Matching Trans. (L617) to achieve waveform shown in Fig. 29.



16 PAL COLOUR OUTPUT ADJUSTMENT

- Set the following control at the position indicated.
 Colour control VR (R3002) Maximum
- Receive an PAL colour bar signal and set the Input signal selector SW. (S3003) to the PAL position.
- 3) Connect an oscilloscope between TPA12 and chassis GND. When adjust Sub colour VR (R629) to achive $1.8V\pm0.1Vp$ -p on the oscilloscope as shown in Fig. 30
- 4) Connect an oscilloscope between TPA10 and chassis GND. When confirm that the waveform level is 2.2V ± 0.5Vp-p on the oscilloscope.

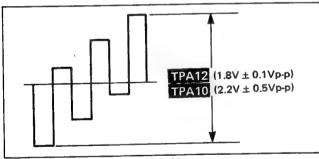


Fig. 30

17. NTSC APC ADJUSTMENT

Note: Before making this adjustment, PAL APC adjustment must be completed.

- Receive an PAL colour bar signal and set the Input signal selector SW. (S3003) to the PAL position.
- Connect an electronic voltmeter to TPA6 and memorize indication of the electronic voltmeter.
- 4) Change signal PAL colour bar pattern into NTSC rainbow colour bar pattern and Input signal selector SW. (\$3003) to the NTSC position.
- 5) Adjust C613 to obtain the value specified in item 4) within a tolerance ± 0.1V.

18. 3.58 NTSC COLOUR OUTPUT

- Set the following control at the position indicated.
 Colour control (R3002) Maximum
- Receive an NTSC rainbow colour bar signal and set the Input signal selector SW. (S3003) to the NTSC position.
- 3) Connect an oscilloscope between TPA12 (B-Output) and chassis GND. When confirm that the waveform level is 0.7V ± 0.2Vo-p on the oscilloscope.
- 4) Disconnect oscilloscope from TPA12 (B-Output) and connect oscilloscope to TPA10 (R-Output). When confirm that the waveform level is 0.6V ± 0.2Vo-p on the oscilloscope.
- 5) Disconnect oscilloscope from TPA10 (R-Output) and connect oscilloscope to TPA12 (B-Output).
- 6) Turn Tint control (R3006) and confirm that the variable range is more than 60°.

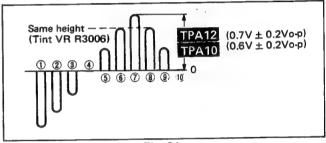


Fig. 31

19. M-NTSC COLOUR OUTPUT

Note: Before making this adjustment, PAL APC adjustment must be completed.

- Set the following control at the position indicated.
 Colour control (R3002) Maximum
- Receive an M-NTSC rainbow colour bar signal and set the Input signal selector SW. (S3003) to the M-NTSC position
- 3) Connect an oscilloscope between TPA12 (B-Output) and chassis GND. When confirm that the waveform level is 0.6V ± 0.2Vo-p on the oscilloscope.
- 4) Disconnect oscilloscope from TPA12 (B-Output) and connect oscilloscope to TPA10 (R-Output).

 When confirm that the waveform level is 0.5V ± 0.2Vo-p on the oscilloscope.
- Disconnect oscilloscope from TPA10 (R-Output) and connect oscilloscope tp TPA12 (B-Output).
- 6) Turn Tint control (R3006) and confirm that the variable range is more than 60°.

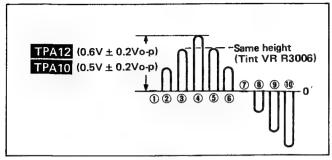


Fig. 32

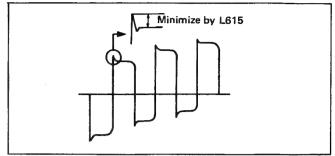


Fig. 35

20. SECAM DELAY LINE ADJUSTMENT

Set the following control at the position indicated.
 Colour control (R3002) Maximum
 Adjust R-Y Gain (R646) and B-Y Gain (R659) controls
 shown in Fig. 33.

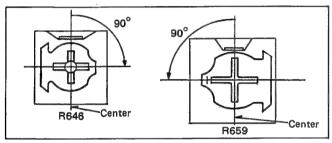
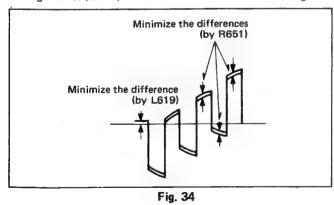


Fig. 33

- Receive an SECAM colour bar signal and set the Input signal selector SW. (\$3003) to the SECAM position.
- 3) Connect an oscilloscope between TPA12 (B-Output) and chassis GND.
- 4) Adjust Delay Line Adj. (R651) and Delay Line Matching Trans. (L619) to achieve waveform shown in Fig. 34.



21. BELL FILTER/LINE DISCRIMINATOR

- Set the following control at the position indicated.
 Colour control (R3002) Maximum
- 2) Receive an SECAM colour bar signal and set the Input signal selector SW. (S3003) to the SECAM position.
- 3) Connect an oscilloscope between TPA12 (B-Output) and chassis GND.
- 4) Adjust L615 to achieve waveform shown in Fig. 35.

22. SECAM COLOUR OUTPUT ADJUSTMENT

- 2) Receive an SECAM colour bar signal.
- 3) Adjust R-Y Gain (R646) and B-Y (R659) controls shown in Fig. 36.

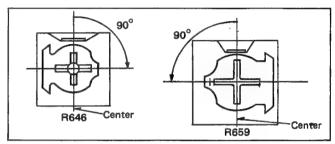
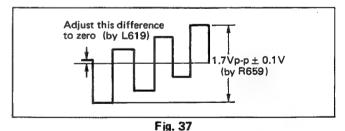


Fig. 36

- 4) Connect an oscilloscope between TPA12 (B-Output) and chassis GND.
- 5) Adjust R659 and L619 to achieve waveform shown in Fig. 37.



6) Disconnect oscilloscope between TPA12 (B-Output) and connect oscilloscope to TPA10 (R-Output).

7) Adjust R646 and L611 to achieve waveform shown in Fig. 38.

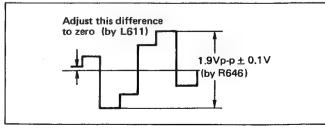


Fig. 38

INSTALLATION/ADJUSTMENT PROCEDURE

The PT-102N is preset for a 3048 mm (120 inch) screen-FRONT CEILING mode.

Confirm diagonal screen size $1270 \sim 3048$ mm (50 ~ 120 inches) and projection mode (6 modes), and choose the proper procedure (A \sim D) from Table 2.

Follow the appropriate procedure (Table 3, A \sim D) to install and adjust the projector properly.

Model	PT-102N/GN/AN/SN				
Screen Size	1270 ~ 1372 mm (50 ~ 54 inch)	1397 ~ 2134 mm (55 ~ 84 inch)	2159 ~ 3048 mm (85 ~ 120 inch)		
Front Ceilling	(B)	(B)	(D)		
Front Floor	(A)	(A)	(C)		
Rear Ceiling	(A)	(A)	(C)		
Rear Floor	(A)	(A)	(C)		
Rear Ceiling with Mirror	(B)	(B)	(D)		
Rear Floor with Mirror	(A)	(A)	(C)		

[Table 2] Screen Size and Projection Mode

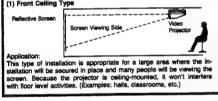
$\overline{}$					
12	R.G.B. Mode Adjustment	•	•	•	•
11	Shading Correction	•	•	+	•
10	Dynamic Convergence Adjustment	YES	YES	YES	•
9	Static Convergence Adjustment	YES	YES	YES	YES
8	Green Raster Adjustment	YES	•	YES	•
7	Deflection Adjustment	YES	NO	YES	NO
6	Verification of Image Position	YES	YES	YES	YES
5	Lens Focus Adjustment	YES	YES	YES	YES
4	Preparation for Adjustment	YES	YES	YES	YEŞ
3	Projection Size Adjustment	YES	YES	NO	NO
2	Installation	YES	YES	YES	YES
1	Variations on Standard installation	YES	YES	YES	YES
No.	PROCEDURE	(A)	(B)	(C)	(D)

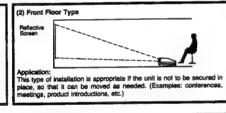
♦ If necessary

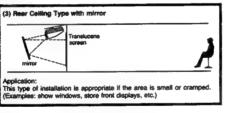
[Table 3] Installation Procedure and Necessary Adjustment

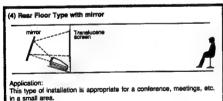
1. Variations on Standard Installation

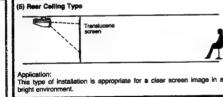
There are two fundamental installation methods: floor placement and ceiling mount, and it is easy to change to the desired method. The method should be selected according to the location of the in stallation and other circumstances, such as using a mirror for indirect projection in cramped locations, or projection from behind the screen, etc.

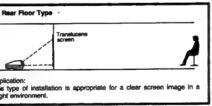






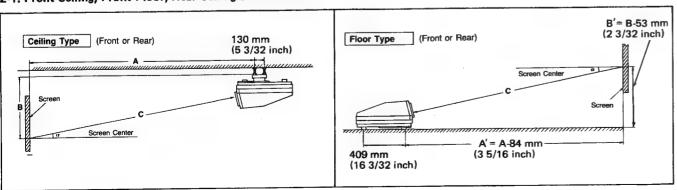






2. Installation

2-1. Front Ceiling, Front Floor, Rear Ceiling and Rear Floor.



— 21 —

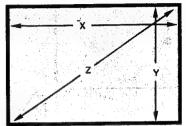
[Table 4] Relationship between screen size and mounting distance.

	SCREEN SIZE (Z)	WIDTH (X)	HEIGHT (Y)	A	В	С	α
	3048 (120)	2438 (96)	1829 (72)	3683 (145)	1125 (44 5/16)	3635 (143 3/32)	13.79°
	2540 (100)	2032 (80)	1524 (60)	3104 (122 3/16)	982 (38 11/16)	3037 (119 19/32)	13.79°
	2286 (90)	1829 (72)	137 2 (54)	2814 (110 13/16)	912 (35 29/32)	2741 (107 29/32)	13.79°
٠	2134 (84)	1707 (67 3/16)	1280 (50 13/32)	2609 (102 11/16)	848 (33 13/32)	2527 (99 1/2)	13.6°
•	1829 (72)	1463 (57 19/32)	1097 (43 3/16)	2304 (90 11/16)	778 (30 19/32)	2210 (87)	13.6°
٠	1524 (60)	1219 (48)	914 (36)	2066 (81 11/32)	716 (28 3/16)	1962 (77 1/4)	13.6°
٠	1270 (50)	1012 (40)	762 (30)	1774 (69 27/32)	640 (25 3/16)	1670 (65 3/4)	13.4°

Note: Measurement in mm and (inch).

A: Distance from screen to center of hole of the front holding bolt.

- B: Distance from mounting plate bottom to center of
- C: Distance form screen center to lens surface.



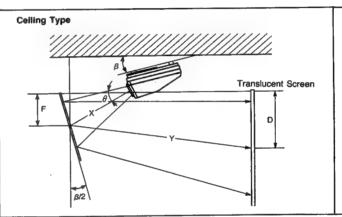
For conventional flat screen (Aspect ratio 3 x 4)

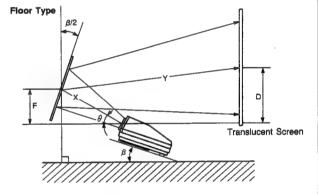
- X: Screen width
- Y: Screeh height
- Z: Diagonal Screen size

Note: The sizes X, Y and Z given in the table above are reduced 7 percent from the effective raster size.

♦ Spacer change is necessary.

2-2. Rear Ceiling or Rear Floor with Mirror





\sim		\/	_	
х	+	Y	=	١.

C = Distance from screen center to lens surface.
(Throw Distance)

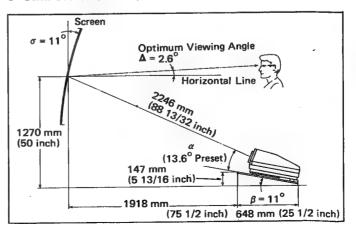
 $F = X \cdot Sin(\theta + \beta)$

 $D = Y \cdot Sin \theta + F$

[Example]

Screen Size	θ
1270 (50)	11.33°
1778 (70)	12.42°
2540 (100)	13.1°
3048 (120)	13.4°

3 Semi Curved Screen (ET-721S)



To provide maximum brightness, the projector and screen tilt angle should be properly set for optimum viewing angle.

Screen tilt angle should be nearly same as projector tilt angle $(\pm 5^{\circ})$.

Optimum Veiwing Angle: $\Delta = \alpha + \beta - 2 \cdot \sigma$

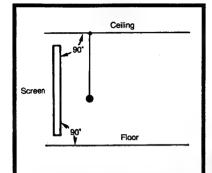
α: Preset Projection Angle (13.6°)

B: Projector Tilt Angle

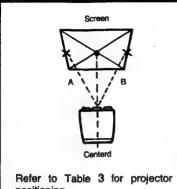
σ: Screen Tilt Angle

PT-102N/GN/AN/SN PT-102N/GN/AN/SN

2-3. Projector Positioning



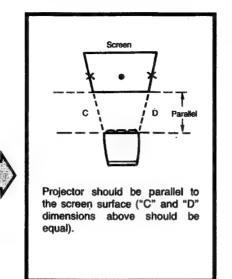
Check to be sure that the screen is installed at a 90° angle relative to the ceiling and floor. (as illustrated, a weight plumb line would be helpful for verifying the screen's vertical positioning.)



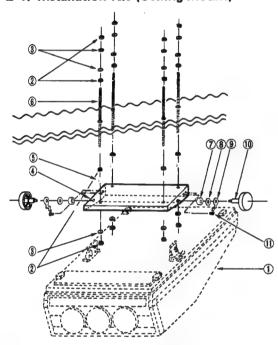
Refer to Table 3 for projector positioning.

Note:
Projector must be centered on screen.

("A" and "B" dimensions above should be equal.)



2-4. Installation Kit (Ceiling Mount)



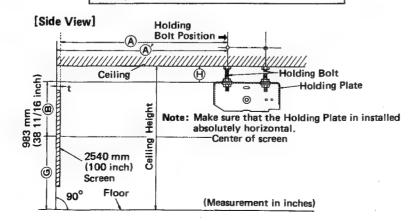
No.	Part Name	Part No.	Pcs.
1	Main Unit		_
2	M10-Nut	XNG10B	16
3	M10 Washer	XWH10	12
4	Holding Plate	TKR23410	1
(5)	M10 Spring Washer	XWB10B	4
6	M10 Holding Bolt	THE600	4
0	Ceiling Washer	TKR23520	2
8	Washer	THW70023W	2
9	Ceiling Stopper Washer	THW70024	2
10	Ceiling Bolt	THE758	2
10	Tilt Securing Screw	XYN5+E12S	2

2-5. Holding Plate Installation

1. Position of Holding Plate

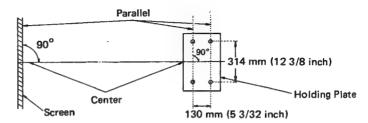
- (1) Decide the distance (A) ' between the front holding bolts and the wall which will hold the screen.
 - (t: distance between wall and front surface of screen.)
- (2) Calculate the distance (H) between the ceiling and the Holding Plate.

Example for 2540 mm (100 inch) Picture Size

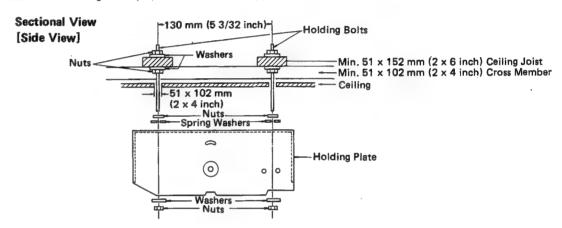


(3) Be careful when positioning the 4 bolts. The holding bolts should be parallel to the screen. Also, the center of the screen should match the center of the holding plate as shown in the figure below.

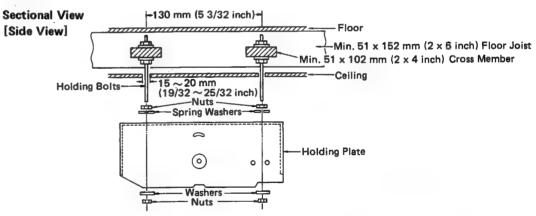
[Top View]



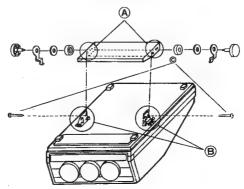
- 2. Examples of installation in typical wood frame structures
- (1) For installation in single-story structure or on the uppermost floor.



(2) For installation in ceiling other than on the uppermost floor.



- 3. Main Unit Installation
- (1) Raise the PT-102N/GN/AN/SN and hook latch (B) to the Pivot (A) on the Holding Plate.
- (2) Set the tilt angle and secure the unit with screw ©



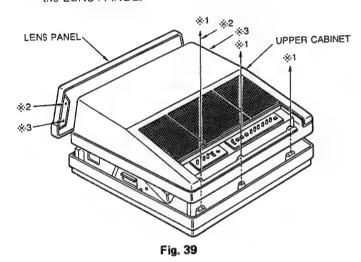
3. Projection Size Adjustment

WHEN CHANGING THE SCREEN SIZE, FOLLOW THE STEPS AS SHOWN BELOW.

(1) Remove the three screws designated " * 1" on Fig. 39 and remove the UPPER CABINET.

Remove the two screws designated " * 2" on cabinet sides.

Remove the two screws designated " * 3" and remove the LENS PANEL.



(2) Remove the twelve LENS mounting screws (4 per LENS) and remove LENSES and SPACERS.

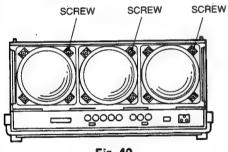


Fig. 40

(3) Place the unit on its side as illustrated Fig. 41. And loosen the four screws designated " * 4" two or three turns. (Do not remove these screws.)

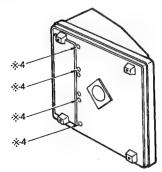
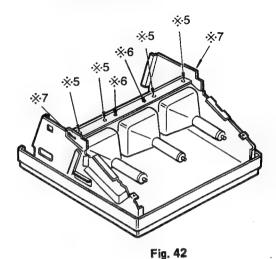


Fig. 41

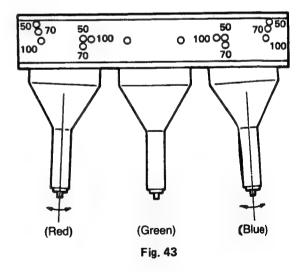
(4) Return the unit to its Original position, and remove the four screws designated ' ≯ 5". [Fig. 42]



(5) Adjust the position of the Red and Blue CRTs for the desired projection size as shown in Table 5 and Fig. 43.

Display Value	Corresponding Size $1270 \sim 1372 \text{ mm } (50 \sim 54 \text{ inch})$	
50		
70	1397 ~ 2134 mm (55 ~ 84 inch)	
100	2159 ~ 3048 mm (85 ~ 120 inch)	

Table 5



Note:

If you have difficulty adjusting the CRTs, loosen screws " * 6" and " * 7" [Fig. 42] slightly. Be sure to re-tighten after adjustment.

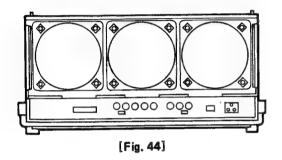
After insuring the proper CRT positions tighten the four "*5" screws [Fig. 42].

Place the unit on its side, and tighten the four " * 4" screws. [As in Fig. 41]

(6) Install the three LENS SPACERS corresponging to the projection size selected in Table 5 and step (5).

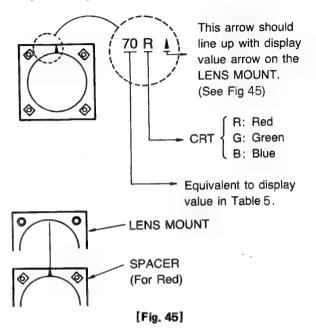
(Example)	
Display Value	LENS SPACER Set
50	50R/50G/50B
00	0011,000,100
70	70R/70G/70B
100	100R/100G/100B

Mount the SPACER as shown in Fig. 44.



(SPACERS are keyed to prevent improper installation.)

Refer to the diagram that follows, for proper SPACER positioning.

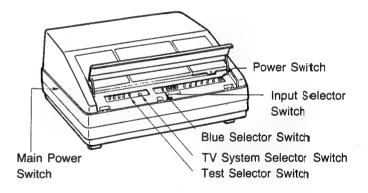


- (7) After mounting the SPACERS, re-install the three LENS units, (4 screws each) [Fig. 40]
- (8) Refit the LENS PANEL and tighten its four screws " ※ 2" and " ※ 3" [Fig. 39]
- (9) After ensuring that a proper picture is displayed, replace the UPPER CABINET and tighten the three screws " * 1" [Fig. 39]

4. Preparation For Adjustment

If the signal input to the Projector is a VIDEO signal, set the signal selector switch to VIDEO; if they are LINE signals, set the switch to LINE; and if they are RGB signals, set the switch to RGB.

* If the REMOTE CONTROLLER is connected, use it to set the signal selector switch (RGB/VIDEO/LINE), and to adjust the Color, the Tint, the Brightness, the Contrast and the Sharpness.



5. Lens Focus Adjustment

This operation should only be carried out if there is any difficulty focusing the image. If the focus is adjusted, the convergence will be disturbed and will have to be re-adjusted.

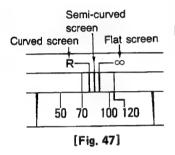
 This unit incorporates a double foucs lens newly developed by Panasonic. Therefore, a pair of lenses are available for 1270 to 3048 mm (50 ~ 120 inch) projection, and peripheral focus adjustment has also become easier.
 Adjust the focus in the following manner.

NOTE: Among the three lenses, a red lens and a green lens are common to each other, but since a blue one is different in spectrum, it has no interchangeability with a red and green lens.

(D)

METHOD OF ADJUSTING FOCUS

- 1) Select one of the RED, GREEN, or BLUE projection CRTs for adjustment. (The other two CRTs should be fitted with lens covers.)
- 2) Loosen the wing-nut (D). (Refer to Fig. 46)
- 3) Turn and adjust the lens so that the indications on (A) and (C) coincide with each other according to the type and size of screen used. (A) shows the type of screen, and (C) shows the screen size. (Refer to Fig. 47)



[Example] For projection on 1829 mm (72 inch)
semi-curved screen

R

50 70 100 120

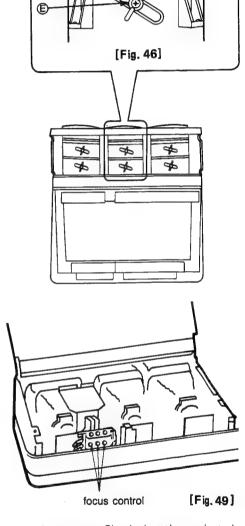
[Fig. 48]

Note: At this time, among the three indents (B) scale) between (A) and (C), the indent in the center should be adjusted so that (A) and (C) are connected.

- 4) Fully tighten and secure adjust the wing-nut D.
- 5) Rotate the lens of the out-of-focus projection CRT after releasing the wing-nut (E) used to fix the projection lens. Adjust the lens to the point at which the scanning lines can be most clearly seen.
- 6) Thighten the wing-nut **(E)** of the projection lens. Then, adjust the two remaining lenses in the same procedure.

Note:

- If focus can't be obtained by turning the lenses, focus electrically by using the focus control shown in the Fig. 49.
 Make the adjustment by looking the image on the CRT surface.
- If the focus is adjusted there may be some color divergence.This should be corrected by convergence adjustment.



6. Verification of Image Position

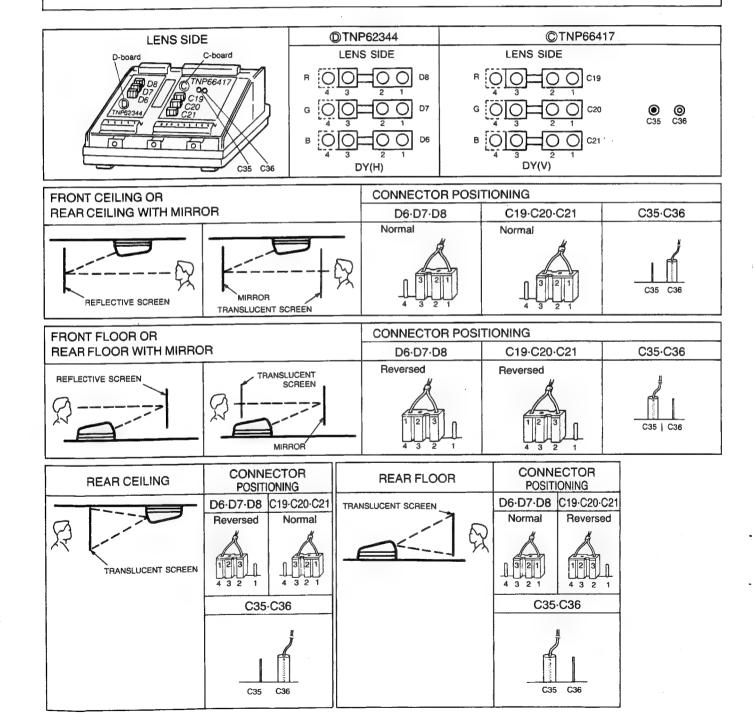
Turn ON the unit and any other equipment connected to it, and project an image on the screen. Check that the projected image matches the screen position. If the projected image is either too high or low, or to the right or left of the screen, or if the image is bigger at top or bottom or left or right, there is probably an error in the way the equipment was installed and all dimensions should be carefully rechecked.

7. Deflection Change

- 1. Turn off the Main Power Switch.
- 2. Changing the deflection circuit by repositioning the connectors on the D (TNP62344) and C (TNP66417) P.C. Boards allows the PT-102N/GN/AN/SN to be configured for the various projection modes.

WARNING:

The connectors; D6, D7, D8, C19, C20 and C21 are designed to fit easily onto the connectors pins on the P.C. Boards. They must be reversed (180°) when changing the deflection connections. The unit will not function properly if the connectors are improperly inserted.



8. Green Raster Adjustment

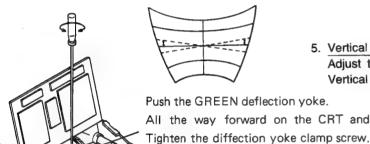
Note; Adjustment of the GREEN RASTER may not be necessary for FRONT CEILING or REAR CEILING modes. Any controls not mentioned in this manual require the use of precision equipment for adjustment. Any attempt to adjust these controls may prevent satisfactory convergence and raster adjustments.

Carry out the installation adjustments in the order in which they are presented in this manual. Failure to do so many result in it being impossible to carry out satisfactory adjustment.

4. Vertical Skew Adjustment

cal Center Line.

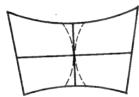
- 1. Turn the TEST switch ON and display the TEST (crosshatch) Pattern.
- 2. Place Lens covers over the RED and BLUE lenses.
- 3. Horizontal Skew Adjustment Loosen the GREEN deflection yoke clamp screw and rotate the deflection yoke so that the Horizontal Center Line is horizontal.



5. Vertical Bow Adjustment Adjust the Vertical Bow adjustment (R944) so that the Vertical Center Line is straight.

Adjust the Vertical Skew control (R7011) to obtain a Verti-

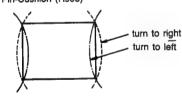
Push the GREEN deflection yoke. All the way forward on the CRT and



6. Side Pincushion Adjustment

Adjust the Side Pincushion control (R993) so that both of the Side Vertical Lines are straight.

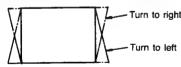
Side Pin-Cushion (R993)



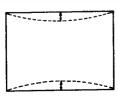
7. Side Keystone Adjustment

Adjust the Side Keystone control (R986) so that both of the Side Vertical Lines are parallel.

Key-Stone (R986)

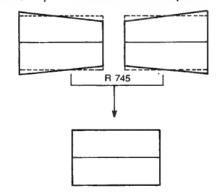


8. Top and Bottom Pincushion Adjustment Adjust the Top and Bottom Pincushion control (R788) so that the Top and Bottom Lines are Straight.



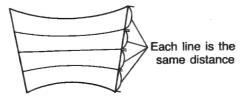
9. Top and Bottom Keystone Adjustment

Adjust the Top and Bottom Keystone control (R745) so that the Top and Bottom Lines are parallel.



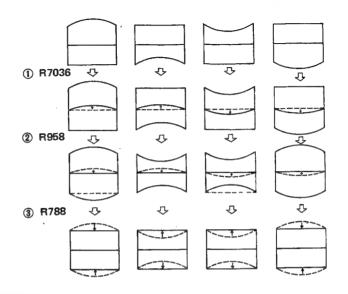
10. Vertical Linearity Adjustment

Adjust the Vertical Linearity control (R442) to produce the display shown in Figure.



11. Top and Bottom Symmetry Adjustment

When the Top and Bottom of the display are not Symmetrical, as shown below adjust the controls (R788, R7036 and



12. Vertical Size Adjustment

Input a PAL or SECAM signal to the VIDEO or LINE input. Set the INPUT SELECTOR Switch to the appropriate position.

Adjust the PAL/SECAM Vertical Size control (R428) for the appropriate picture height.

Input an NTSC signal and set the INPUT SELECTOR switch to NTSC, Adjust the NTSC Vertical Height control (R432) for the appropriate picture height.

Note; It is not necessary to adjust the PAL/SECAM Vertical Size control (R428) if the projector will not be used for PAL or SECAM Signals.

13. Horizontal Size Adjustment

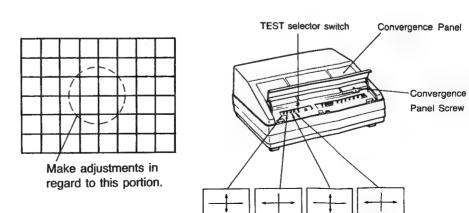
Adjust the Horizontal Size control (R1541) on the D board for the proper picture width.

14. Horizontal/Vertical Position Adjustment

By using the Green Static Convergence controls (R7005 and R7006), Horizontal and Vertical Positioning can be adjusted. These controls are for adjustments at the factory and set the Green Raster as the reference for convergence adjustments. Do not attempt to compensate for installation errors by using these controls.

9. Static Convergence Adjustment

1. Turn the TEST selector switch ON and output the CROSS-HATCH PATTERN to check the degree of colour divergence. If there is any divergence, adjust the central convergence controls (R-V, R-H, B-V, B-H).



Opening the Convergence Panel. Open the operation panel cover and remove the convergence panel screw. While holding the operation panel cover half closed, slide the convergence panel to the middle of Convergence the operation panel cover to remove it.

Blue

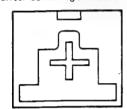
Red

PT-102N/GN/AN/SN PT-102N/GN/AN/SN

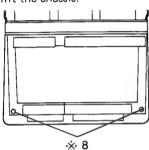
10. Dynamic Convergence Adjustment

Note: If the Deflection Polarity was not changed (page 28), Dynamic Convergence Adjustment procedures 1, through 6, will not be nesessary.

- 1. Turn off the main power switch.
- 2. Remove the three screws designated % 1 as in [Fig. 39] and remove the upper cabinet.
- Set all of the Red and Blue convergence controls (5 ~
 to the center as in Figure below.



4. Loosen 2 screws $\frac{1}{2}$ 8 counterclockwise by 90° as in Figure and lift the chassis.



parallel with Green horizontal center line.

5. Turn on the main power switch. Input an external signal

6. Loosen the Red and Blue deflection yoke clamp screws

*9 and rotate the Red and Blue deflection yokes, so

that the Red and Blue horizontal center line will be

and turn the TEST switch on.

Push the Red and Blue deflection yokes all the way forward on the CRTs and tighten the deflection yoke clamp screw of each.

- 7. Cover the Blue iens with the lens cover.
- 8. Adjust each of the Red convergence controls in order from (5) to (25) as in Fig. 50 so that the Red pattern matches the Green pattern.
- 9. Cover the Red lens with the Lens cover and perform the operation in 8. for the Blue CRT. Adjust the Blue controls in order from (26) to (46).

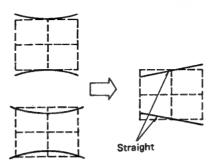
[Fig. 50]

Order o	f Adjustme	nt VR'S	Function of Adjustment VR'S
G	B-H B-V	R-H R-V	G B-H B-V 9-H R-V
1	27) 26)	6 5	128 A922 R897 R892 R870
2	30 32	9 11	7
3	31 33	10 12	RS04 RS02 RS011 RS06 RS72
4	34 28	13 7	R745 R935 R913 R958 R926
	35 29	(4) (8)	R937 R915 R900 R878
	SU	31	SU61
SUB2	40 36	19 15	SU82 R339 R917 R901 R800
в-н 46	41) 37	20 16	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
r-н 2 5	42 38	21 17	R 7200 R943 R921 R906 R884
	43 39	22 18	
G-STATIC	SU	B2	G-STATIC SUB2
48 47	45 44	24 23	R7006 R7006 R924 R7013 R867 R7012

Main Adjustment 5 to 4 for RED – (26 to 35 for BLUE) – 31 –

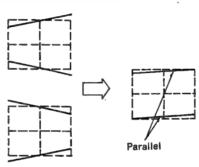
(5)(26) Top and bottom pincushion

Rotate R870 (R907) so that both top and bottom horizontal lines are straight.



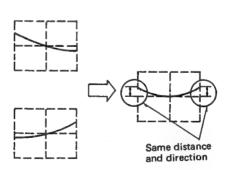
(6) (27) Top and bottom key stone

Rotate R892 (R928) so that Top and bottom lines are parallel



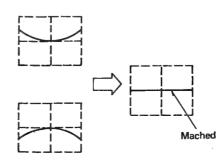
(28) Horizontal Skew

Rotate R876 (R913) so that the horizontal center line is at the center and equal distance at each end from the green horizontal center line.



(8) (29) Horizontal Bow

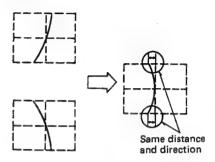
Rotate R878 (R915) so that the horizontal center line matches the green horizontal center line.



If you cannot converge, readjust (7) (28) (Horizontal Skew)

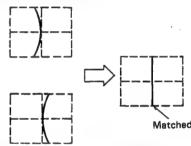
(9) (30) Vertical Skew

Rotate R894 (R930) so that the vertical center line is touching at the center and equal distances at each end from green vertical center line.



10 (31) Vertical Bow

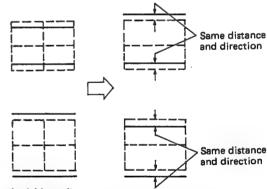
Rotate R896 (R932) so that the vertical center line matches the green vertical center line.



If you can not converge, readjust (9) (30) (Vertical Skew)

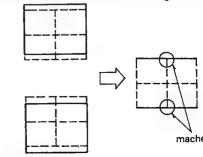
(1) (32) Vertical Size

Retote R871 (R909) so that at the center of the top and bottom horizontal lines, these lines are the same height as the green lines and that any offset at top and bottom is equal.



(3) Vertical Linearity

Rotate R873 (R911) so that the center of the top and bottom horizontal lines match the center of the green top and bottom

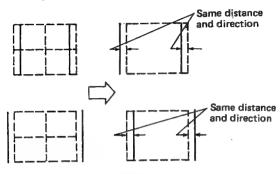


If you can not converge the top and bottom lines readjust 1 (2) (Vertical Size)

- 32 -

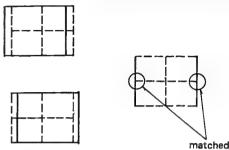
(3) (34) Horizontal Size

Rotate R898 (R935) so that at the center of the left and right vertical lines, these lines are the same width as the green lines and that any off set at left and right is equal.



(35) Horizontal Linearity

Rotate R900 (R937) so that the center of the right and left vertical lines match the center of the green right and left lines.



If you can not converge the right and left lines, readjust (3) (4) (Horizontal size)

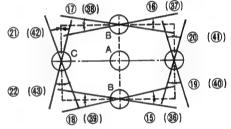
SUB 1 Adjustment (15) to 22 (36) to 43)

Refer adjust corner convergence (15 to 22 (36 to 43).

- A. Confirm that the horizontal and vertical center lines of all three rasters cross at the center.
- B. Confirm that the center of the top and bottom horizontal lines of all three rasters are converged at the center point.
- C. Confirm that the center of the left and right vertical lines of all three rasters are converged at the center point. If A, B and C are all converged properly.

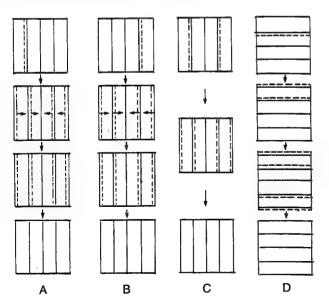
If they are not converged properly, readjust the main dynamic convergence control SUB 1 control cannot compensate for misconvergence.

Converge the four convers using controls (15) to (20) (36) to (43)).



SUB 2 Adjustment

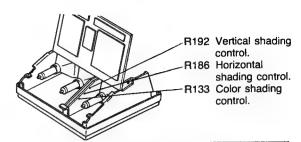
- A.B When the Horizontal linearity is off inside the left (or right) edge of the screen, adjust R7023 (R7024) so that the linearity is offset across the screen towards the center.
 - By adjusting the right horizontal size R887 (R924), and the horizontal linearity R900 (R937) controls alternately, adjust the picture so that the deviation from the green raster is equal across the screen.
 - Adjust R898 (R935) the horizontal width control to converge all the vertical lines on the green raster.
- C. When the Horizontal linearity is off inside both edges of the screen, adjust R7023 (R7024) so that the linearity is offset across the screen towards the center.
 - Adjust R898 (R935) the horizontal width control to converge all the vertical lines on the green raster.

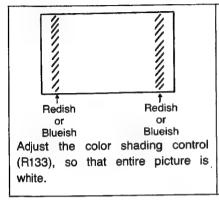


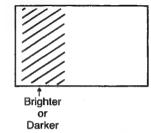
D. When the linearity is off outside the top (or bottom) edge of the screen, adjust R7012 (R7013) and the vertical linearity R873 (R911) controls alternately, adjust the picture so that the deviation from the green raster is equal across the screen. Adjust R871 (R909) the vertical width control to converge all the horizontal lines on the green raster.

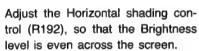
11. Shading Connection

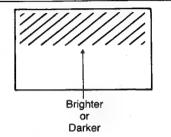
Input a white pattern or snow noise signal and turn the Colour Control fully counterclockwise. If brightness or colour appears uneven, adjust the following controls.











Adjust the Vertical shading control (R186), so that the Brightness level is even from top to bottom.

12. RGB Mode Adjustment

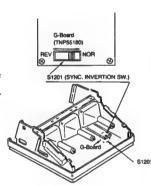
If the abnormal conditions listed below occur when a personal computer is connected to the RGB inputs, the unit is probably not defective. Adjust the respective control to compensate for each condition. The controls indicated have no affect when the unit is not in the RGB mode.

- 1. When the picture is shifted to either the left or the right, adjust it's position with the H-Centering control (R568) on the C-Board.
- 3. When vertidal rolling occurs adjust the V-Hold control (R424) on the C-Board.

Systems Applications SYNC INVERTING SWITCH

The purpose of this switch (S1201) is for changing the polarity of the synchronizing signal from the computer.

Normally this switch is at NOR position and located on the G Board (TNP55180).

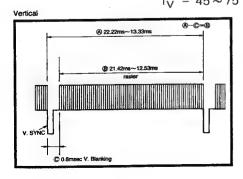


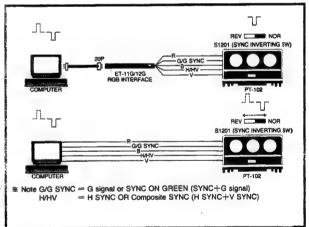
Computer Application

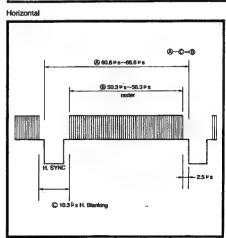
PT-102N/GN/AN/SN FREQUENCY TIMING CHART

When PT-102N/GN/AN/SN is connected to the computer, check the scanning frequency (or time), display time and blanking time of horizontal and vertical, compare with the following timing chart.

* Reference: PT-102N/GN/AN/SN f_H = 15.75 ± 0.75 kHz f_V = 45 ~ 75 Hz

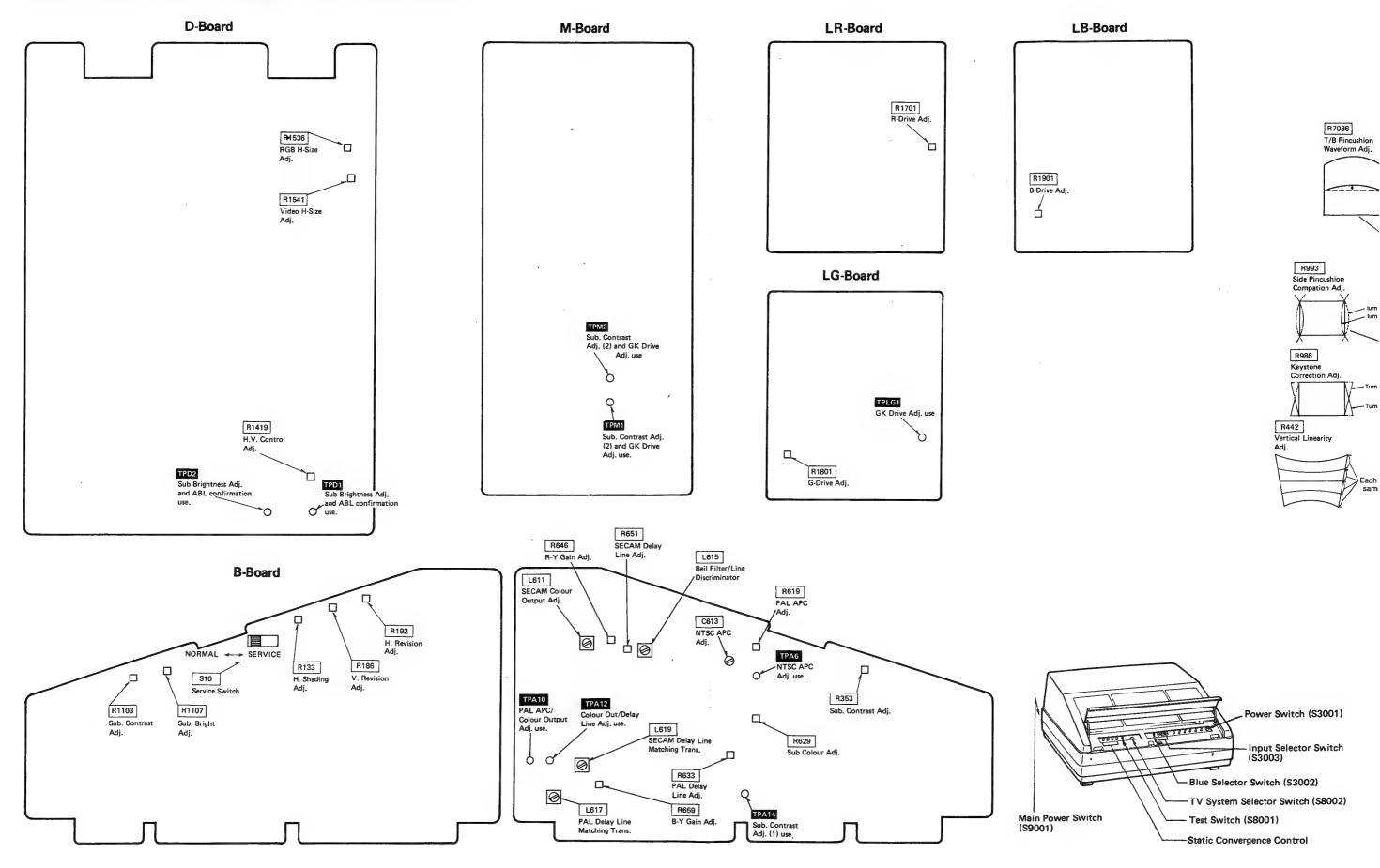


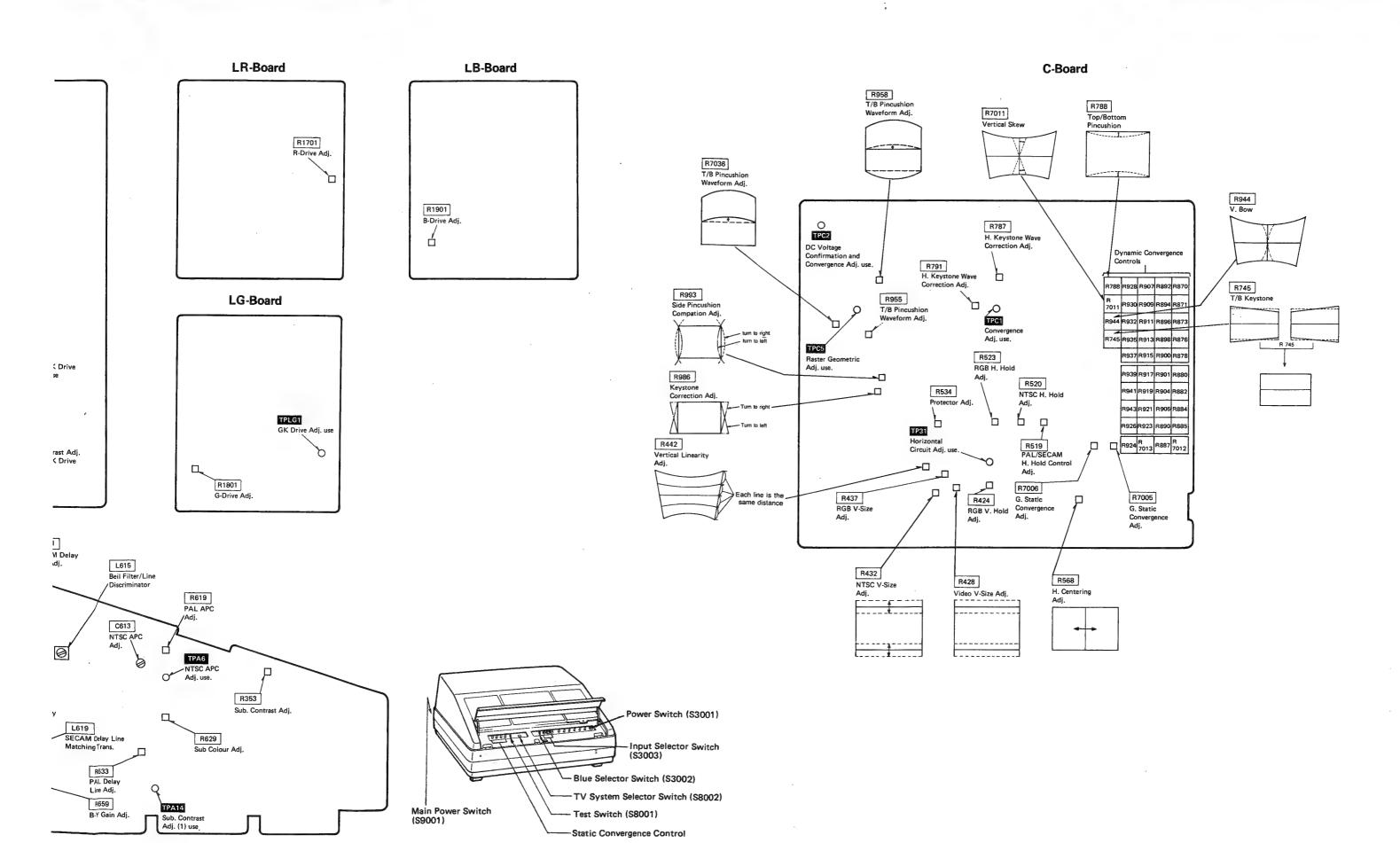




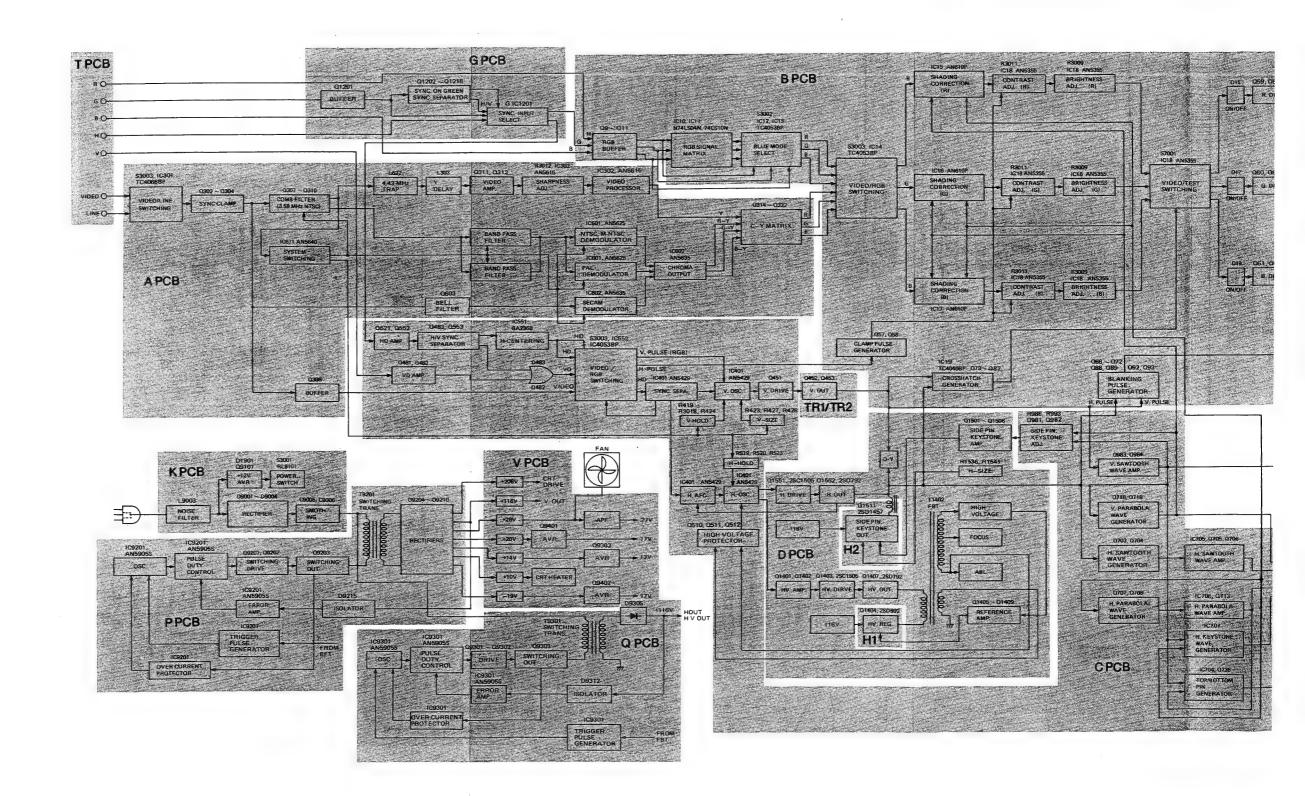
PT-102N/GN/AN/SN PT-102N/GN/AN/SN

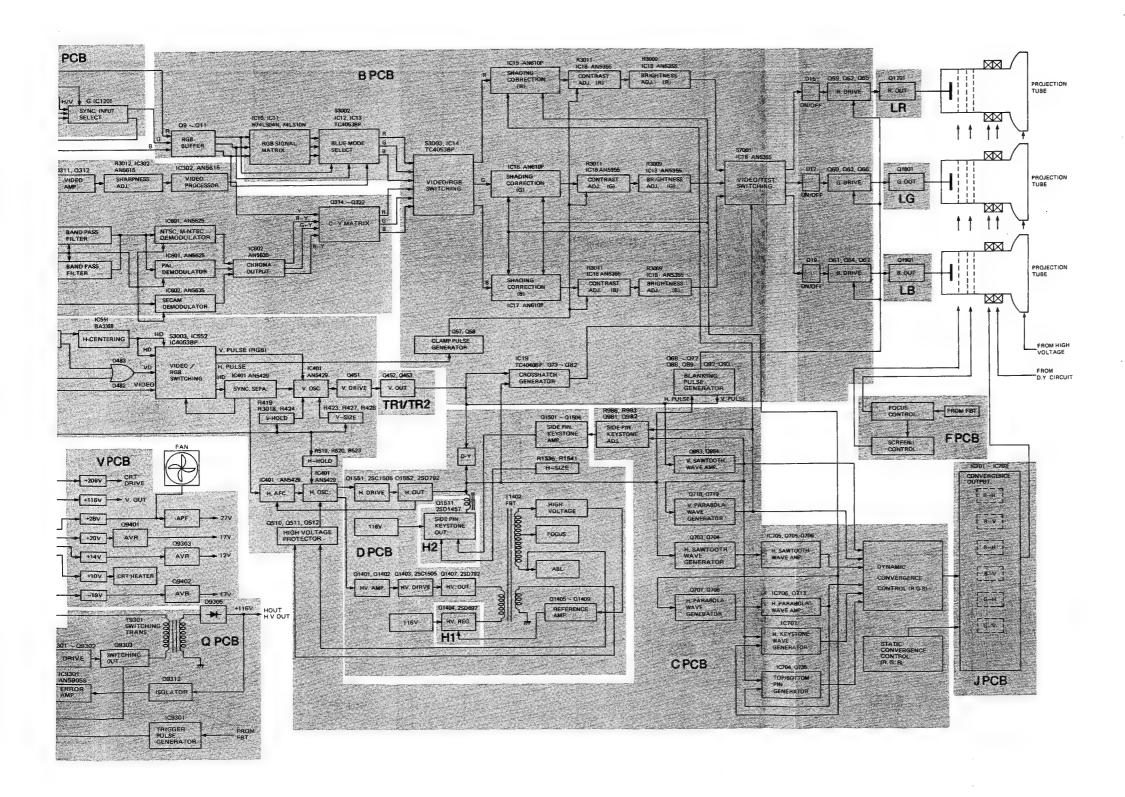
LOCATION OF TEST POINT AND CONTROLS





BLOCK DIAGRAM





INTERCONNECTION A-BOARD TNP55165 LR-BOARD TNP60975CB CRT R-BOARD TNP52907 M-BOARD LG-BOARD 25P CONNECTOR TNP55169 TNP60976CB CRT LB-BOARD TNP60977 CRT Z-BOARD H2-BOARD TNP62358ZA TNP62369ZA Q1552 2SD1175 # 02009070**06**00 **G-BOARD** H-DY(G) H-DY(R) **-**000 TNP55180 07 023 0 18 023 0 116 023 0 1500 1600 1100 1700 T-BOARD D-BOARD TNP55168 TNP62344AZ \$2023436789@f S-BOARD 64 0250 62 0250 | | | | | | | | | | | | | | | 🛭 TNP55167 B-BOARD TNP55166 P-BOARD SCREEN FOCUS BLOCK TNP51569BZ Q-BOARD H1-BOARD TNP62368ZA V-BOARD TNP52504 AZ TNP51568 FBP-12A 24LZD 6 J-BOARD 7 TNP66418 D9104 \$9002 TSE960 RPHL 00 C-BOARD **TNP66417AZ** - 13 023) - 14 0230) - 15 023) - 15 023 - 11 023 - 11 023 - 11 023 - 113 023 K-BOARD F2 023 TNP51570CZ F-BOARD 13 10 TNP100066 0 R9001 3.3 20 W R-H-CY X-BOARD

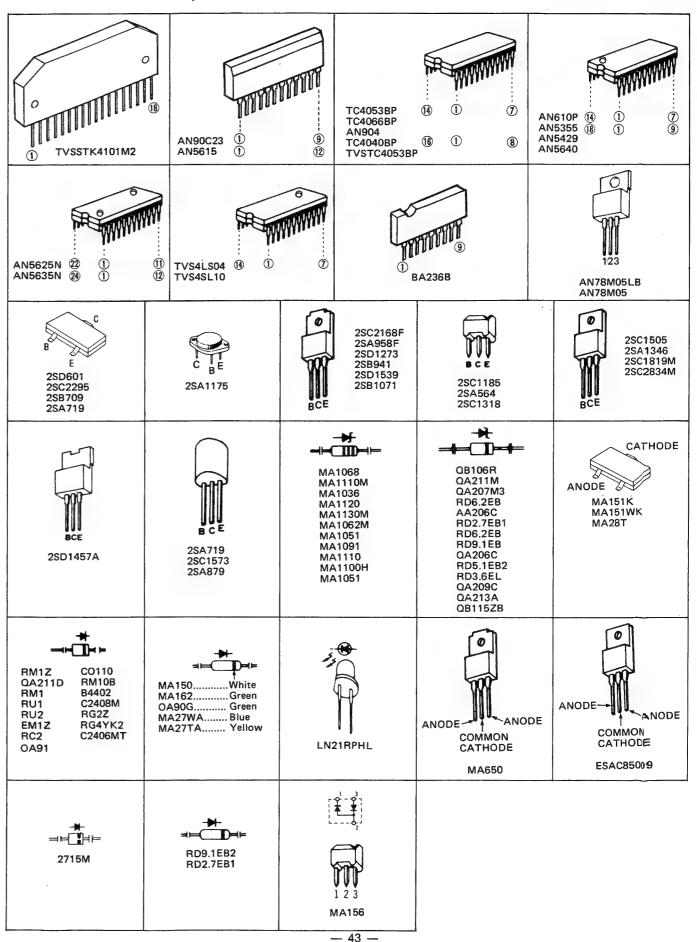
- 42 -

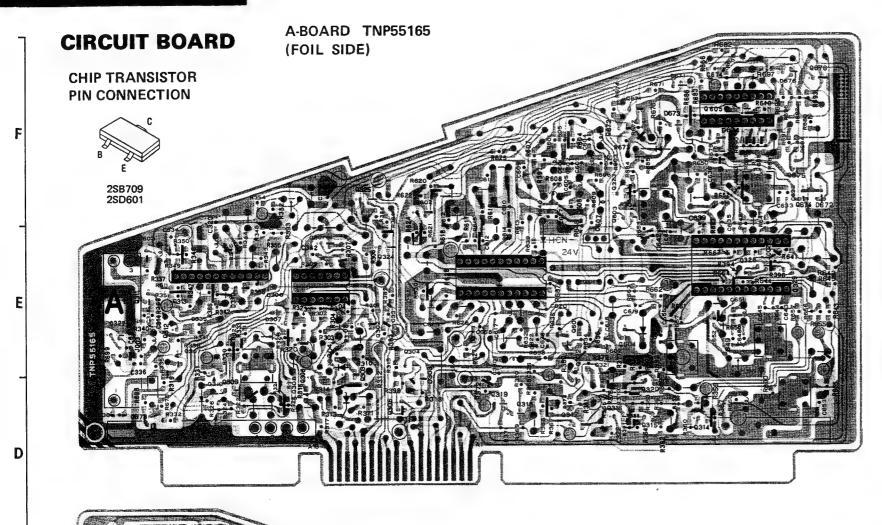
TNP100265AA

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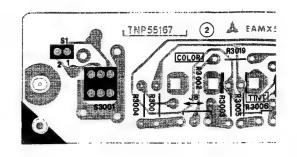
LR-BOARD TNP60975CB CRT LG-BOARD TNP60976CB CRT LB-BOARD TNP60977CB CRT H2-BOARD Z-BOARD TNP62369ZA A Q1552 2SD1175 TLY-15229F TLY-15230F H-DY(G) H-DY(R) **-**∳∳∳-17 023 0 18 023 0 16 023 0 TNX13013 **D-BOARD TNP62344AZ ARD** 5167 FOCUS H1-BOARD **ARD** TNP62368ZA 2504 ΑZ V5 02 FBP- 12A 24LZD C-BOARD J-BOARD **TNP66417AZ** f2 (123) F-BOARD B TNP100066 B-H-CY R-H-CY G-H-CY **— 42 —**

TERMINAL GUIDE OF IC'S, TRANSISTOR ADN DIODES



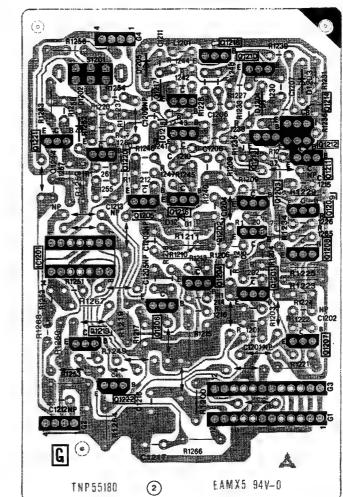


	A-B	OARD	
I.C		Q604	E-5 (F)
10201	B-4 ©	Q605	F-5 ®
IC301		Q671	F-5 (F)
IC302	B-5 ©	Q672	F-4 (F)
IC601	B-3 ©	Q673	D-1 (F)
IC602	B-2 ©	Q674	E-6 (F)
IC671	C-2 ©	Q675	F-6 €
Transistor	1	Q676	F-6 (F)
2004	T == 0	· VR	
Q301	E-3 ®	R327	B-5 ©
Q302	E-3 (F)	R353	1 0
Q303	D-3 (Ē)	R619	,
Q304	E-3 (F)	R629	C-4 © B-4 ©
Q305	D-2 (F)	R633	B-3 ©
Q306	D-3 🖲	R646	C-2 ©
Q307	E-2 🕞	R651	
Q308	D-2 🕞	R659	C-2 © A-2 ©
Q309	D-2 🕞	H0039	A-2 (C)
Q310	D-2 🖲	Test Point	
Q311	E-1 (F)	TPA1	A-4 ©
Q312	E-1 (F)	TPA1	A-4 © B-5 ©
Q313	E-2 (F)	TPA3	B-6 ©
Q314	D-5 (Ē)	TPA4	B-6 ©
Q315	D-5 (F)	TPA5	C-5 ©
Q316	D-4 (F)	TPA6	B-4 ©
Q317	D-4 (F)	TPA7	A-1 ©
Q318	D-4 (F)	TPA8	B-2 ©
Q319 '	D-4 (F)	TPA9	C-2 ©
Q320	D-5 (F)	TPA10	C-1 ©
Q321		TPA11	A-2 ©
Q323	1 ~	TPA12	B-1 ©
Q324	E-3 (F)	TPA13	A-3 ©
Q325]	TPA14	A-3 ©
Q601		TPA15	A-3 ©
Q602	E-1 (F)	I FAIS	ا می
Q603	E-4 ®	J	



ADDRESS INFORMATION © ... COMPONENT SIDE F ... FOIL SIDE

G-BOARD TNP55180

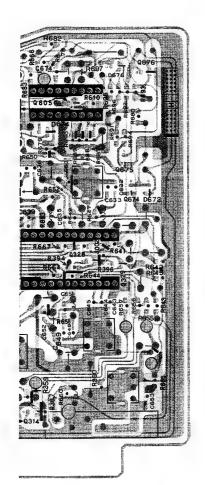


G-BOARD	
I.C	
IC1201	B-7
Transistor	
Q1201	B-8
Q1202	C-8
Q1203	C-8
Q1204	B-8
Q1205	C-7
Q1206	B-7
Q1207	B-7
Q1208	B-8
Q1209	C-8
Q1210	D-8
Q1211	C-8
Q1212	C-8
Q1213	C-8
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Q1215	C-8
Q1216	C-8
Q1217	D-7
Q1218	D-8
Q1219	B-7

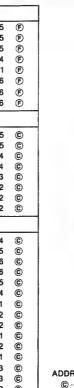


A-BOARD TNP55165 (COMPONENT SIDE)

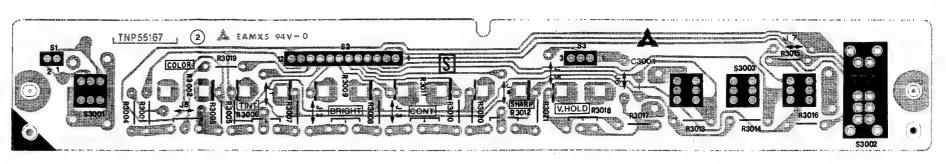
PT-102N/GN/AN/SN PT-102N/GN/AN/SN



	A-B	OARD	
I.C		Q604	E-5 🖲
IC301	B-4 ©	Q605	F-5 🖲
IC301	B-5 ©	Q671	F-5 🖲
IC601	B-3 ©	Q672	F-4 (F)
IC602	B-2 ©	Q673	D-1 (F)
IC671	C-2 ©	Q674	E-6 🖲
10071	0.2	Q675	F-6 🖲
Transistor		Q676	F-6 🕏
Q301	E-3 (F)	VR	
Q302	E-3 (F)	R327	B-5 ©
Q303	D-3 🕞	R353	C-5 ©
Q304	E-3 🖲	R619	C-4 ©
Q305	D-2 🗐	R629	B-4 ©
Q306	D-3 🖲	R633	B-3 ©
Q307	E-2 🕞	R646	C-2 ©
Q308	D-2 🖲	R651	C-2 ©
Q309	D-2 🕞	R659	A-2 ©
Q310	D-2 🖲	Test Point	
Q311	E-1 (F)		
Q312	E-1 (F)	TPA1	A-4 ©
Q313	E-2 (F)	TPA2	B-5 ©
Q314	D-5 (F)	TPA3	B-6 © B-6 ©
Q315	D-5 (F)	TPA4 TPA5	C-5 ©
Q316	D-4 🕞	TPA6	B-4 ©
Q317	D-4 (F)	TPA7	A-1 ©
Q318	D-4 (Ē)	TPA7	B-2 ©
Q319	D-4 (F)	TPA9	C-2 ©
Q320	D-5 (F)	TPA10	C-1 ©
Q321	D-4 (F)	TPA11	A-2 ©
Q323 Q324		TPA12	B-1 ©
Q324 Q325	E-3 (F) F-3 (F)	TPA13	A-3 ©
Q325 Q601	E-4 (F)	TPA14	A-3 ©
Q602	E-1 (F)	TPA15	A-3 ©
Q602 Q603	F-4 (F)		"

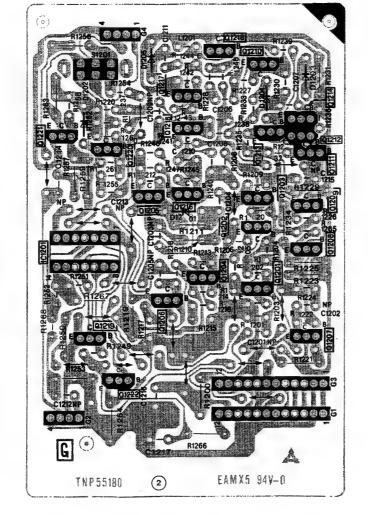


S-BOARD TNP55167



ADDRESS INFORMATION © ··· COMPONENT SIDE ⑤ ··· FOIL SIDE

G-BOARD TNP55180

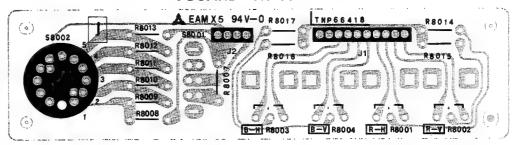


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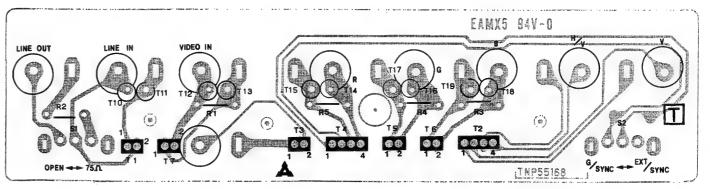
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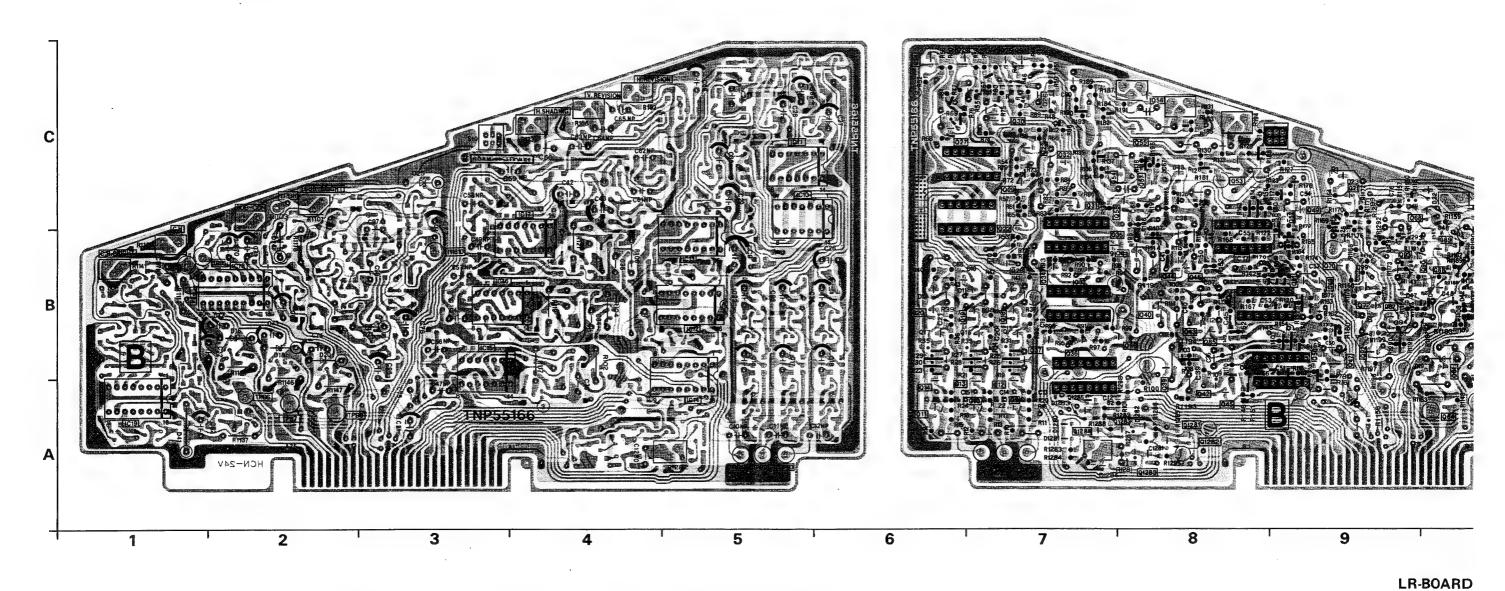
G-BOARD	
I.C	
IC1201	B-7
Transistor	
Q1201	B-8
Q1202	C-8
Q1203	C-8
Q1204	B-8
Q1205	C-7
Q1206	B-7
Q1207	B-7
Q1208	B-8
Q1209	C-8
Q1210	D-8
Q1211	C-8
Q1212	C-8
Q1213	C-8
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Q1215	C-8
Q1216	C-8
Q1217	D-7
Q1218	D-8
Q1219	B-7

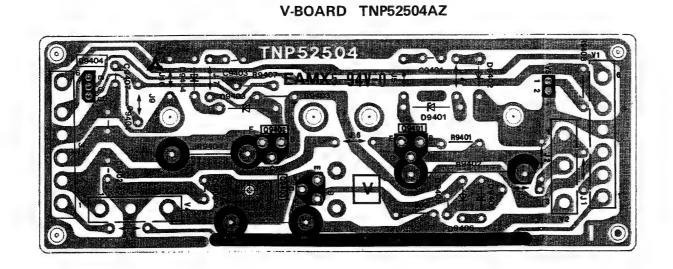
J-BOARD TNP66418

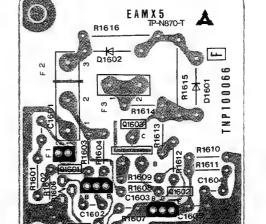


T-BOARD TNP55168

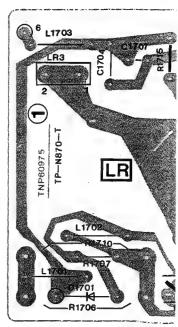








F-BOARD TNP100066

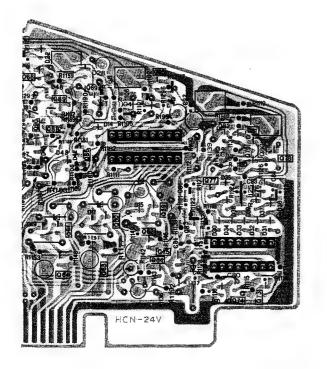


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CHIP TRANSISTOR PIN CONNECTION

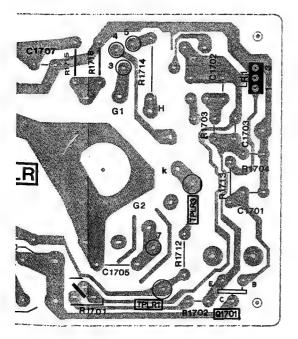


2SB709 2SD601



10	11

R-BOARD TNP60975CB



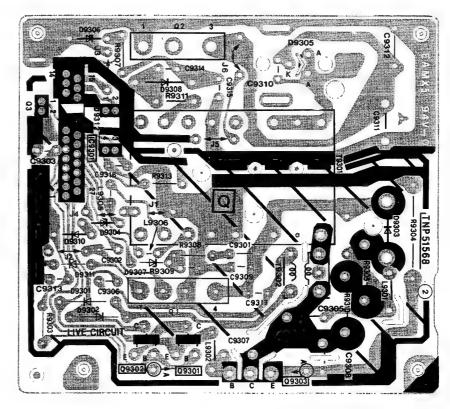
	В-ВС	ARD	
I.C		Q55	C-8 (F)
IC10	C-5 ©	Q56	C-8 (F)
IC11	C-5 ©	Q57	C-8 (F)
IC12	B-5 ©	Q58	C-8 (F)
IC13	B-5 ©	Q59	B-10 🖲
IC14	A-5 ©	Q60	A-10 🖲
IC15	B-3 ©	Q61	A-10 🕑
IC16	B-3 ©	Q62 Q63	A-10 (F) A-10 (F)
IC17	B-4 ©	Q64	A-10 (F) A-10 (F)
IC18	B-2 ©	Q68	C-9 ®
IC19	A-2 ©	Q69	B-10 (F)
Transistor		Q70	B-9 🕞
Q9	A-7 🕞	Q71	C-9 (F)
Q10	A-7 🕞	Q72 Q73	B-9 (F)
Q11	A-6 (F)	Q74	, A-11 (F) A-11 (F)
Q12	A-7 🕑	Q75	A-10 ®
Q13	B-6 🖲	Q76	B-11 (F)
Q14	B-6 (F)	Q77	B-11 (F)
Q15	B-7 (Ē)	Q78	B-11 (F)
Q16	B-6 (F)	Q79	B-11 🕞
Q17	B-6 (Ē) B-7 (Ē)	Q80	B-11 🖲
Ω18 Q19	B-7 (F) B-7 (F)	Q81	B-11 🕑
Q20	B-6 (F)	Q82	B-11 🖲
Q21	C-6 (F)	Q83	A-11 🖲
Q22	C-7 (F)	Q84	A-10 🖲
Q23	C-7 (F)	Q85	B-8 🖲
Q24	C-7 (F)	Q86	B-10 €
Q25	C-7 (F)	Q87	B-9 ®
Q26	C-7 🖲	Q88 Q89	B-10 (F) B-10 (F)
Q27	C-7 🖲	Q90	B-10 (F) B-9 (F)
Q28	B-7 €	Q91	C-7 (F)
Q29	C-7 🖲	Q92	B-9 (F)
Q30	C-7 (E)	Q93	B-9 (F)
Q31	C-7 (F)	Q95	B-10 (F)
Q32	C-7 (F)	VR	
Q33 Q34	B-7 € B-7 €	VK	
Q35	B-8 (F)	R133	C-4 ©
Q36	B-7 (F)	R186	C-4 ©
Q37	B-7 (F)	R192	C-4 ©
Q38	B-8 (Ē)	R1103	C-2 ©
Q39	B-8 (F)	R1107	C-2 ©
Q40	B-8 🖲	R1120	B-1 ©
Q41	B-8 (F)	R1141	B-1 ©
Q42	A-8 (F)	Test Point	
Q43	B-8 (F)	TPB1	A-5 ©
Q44 Q45	B-8 (F) A-8 (F)	TPB2	A-5 ©
Q45 Q46	B-8 (F)	TPB3	A-5 ©
Q47	B-9 ®	TPB4	B-1 ©
Q48	B-9 🕞	TPB5	B-2 ©
Q49	C-9 ®	TPB6	A-2 ©
Q50	B-9 🖲	TPB7	A-2 ©
Q51	B-9 🕞	TPB8	A-2 © B-3 ©
Q52	C-9 ®	TPB10 TPB11	B-3 © C-2 ©
Q53	C-8 (F)	""	
Q54	C-7 🖲		

ADDRESS INFORMATION

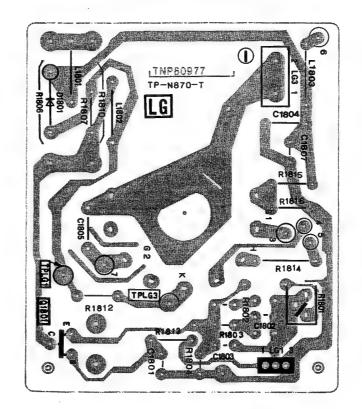
© ··· COMPONENT SIDE

(F) ··· FOIL SIDE

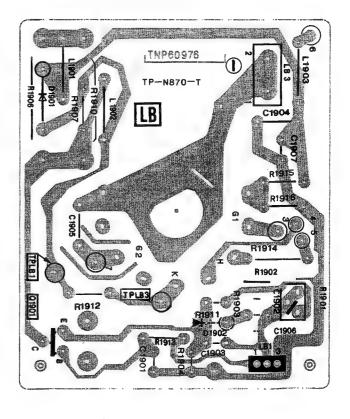
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LG-BOARD TNP60976CB



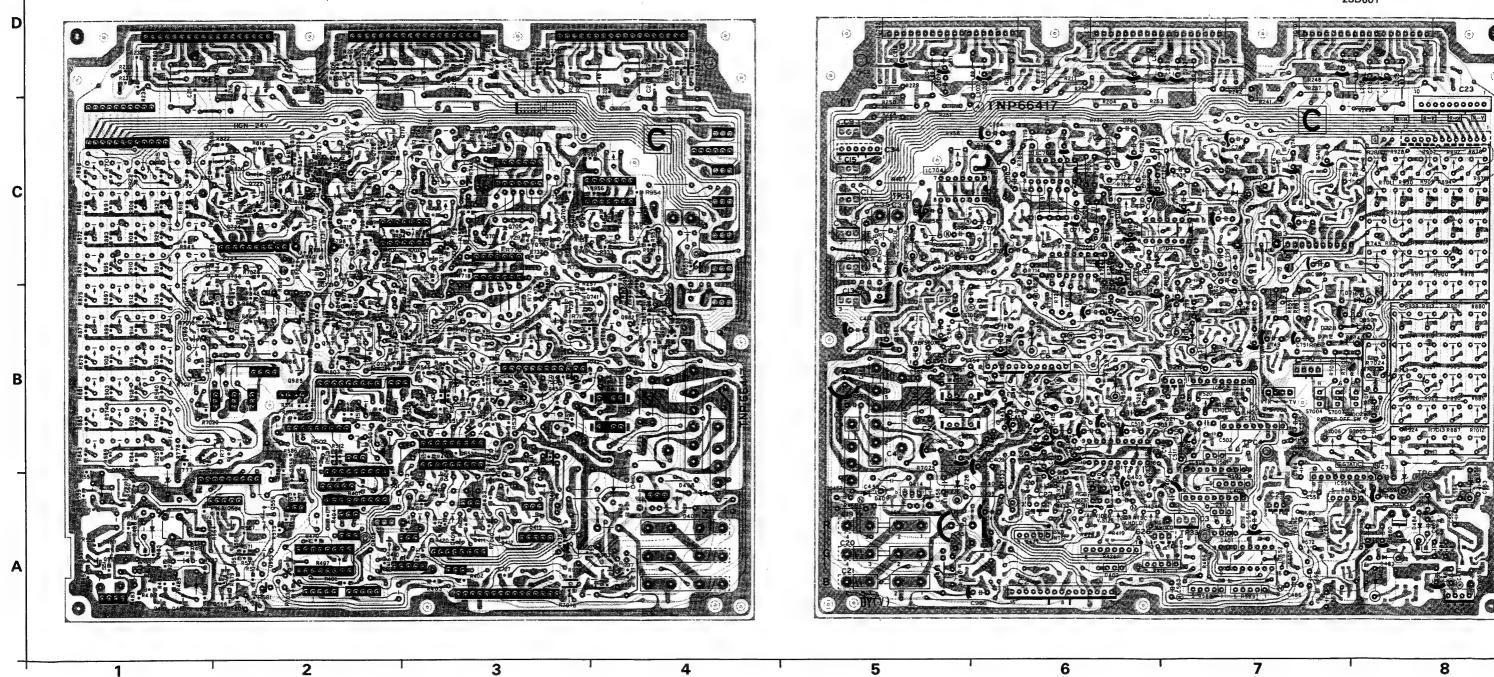
LB-BOARD TNP60975CB



C-BOARD TNP66417AZ (FOIL SIDE)

C-BOARD TNP66417AZ (COMPONENT SIDE)

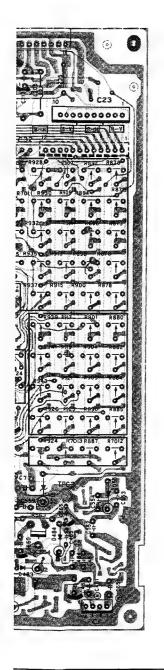




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M-BOARD TNP55169



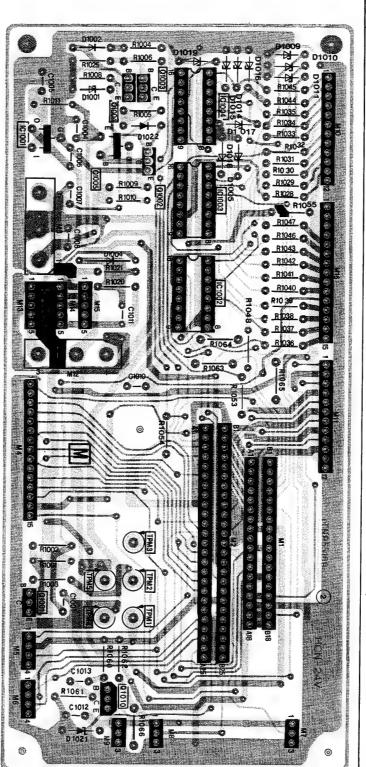


		C-BC	DARD		
I.C		Q726	C-2 🖲	R880	B-8 ©
IC401	B-6 ©	Q727	C-2 🖲	R882	B-8 ©
IC405	A-7 ©	Q728	C-2 🖲	R884	B-8 ©
1C406	A-7 ©	Q729	B-2 🖲	R885	B-8 ©
1C501	B-7 ©	Q730	C-2 🖲	R887	B-8 ©
IC502	B-7 ©	Q731	C-2 (F)	R890	B-8 ©
IC551	A-7 ©	Q732	B-2 🕞	R892	C-8 ©
IC552	A-7 ©	Q733	B-2 (F)	R894	C-8 ©
IC554	A-6 ©	Q734	B-2 (F)	R896	C-8 ©
IC704	C-6 ©	Q735 Q736	B-2 (F) C-4 (C)	R898 R900	C-8 © C-8 ©
IC705	C-6 ©	Q737	C-2 (F)	R901	C-8 © B-8 ©
IC706	C-6 ©	Q738	B-2 (F)	R904	B-8 ©
IC707	C-6 ©	Q739	B-3 ®	R905	B-8 ©
Transistor		Q740	B-3 (F)	R907	C-8 ©
		Q740 Q741	B-4 (F)	R909	C-8 ®
Q408	A-2 🕑	Q742	B-4 (F)	R911	C-8 ©
Q409	A-3 🖲	Q981	B-4 (F)	R913	C-8 ©
Q410	A-1 🖲	Q982	B-4 (F)	R915	C-8 ©
Q411	A-3 🖲	Q983	A-4 (F)	R917	B-8 ©
Q412	A-3 (F)	Q984	A-3 (F)	R919	B-8 ©
Q413	A-3 (F)	Q985	B-2 (F)	R921	B-8 ©
Q414	A-5 ©	Q986	B-2 🖲	R923	B-8 ©
Q451	B-6 ©	Q987	B-2 🖲	R924	B-8 ©
Q481	A-1 (Ē)	Q988	B-2 🖲	R926	B-8 ©
Q482 Q483	A-1 (F)	Q989	B-1 🕞	R928	C-8 ©
Q483 Q510	A-1 (F) B-3 (F)	Q990	C-2 🖲	R930	C-8 ©
Q510 Q511	B-3 (F)	Q991	C-2 🖲	R932	C-8 ©
Q512	B-3 (F)	Q992	C-3 (F)	R935	C-8 ©
Q551	A-1 (F)	Q993	C-2 ®	R937	C-8 ©
Q553	A-1 (F)	Q994	B-4 €	R939	B-8 ©
Q559	B-2 (F)	Q995	A-2 🖲	R941	B-8 ©
Q701	B-3 🕑		L	R943	B-8 ©
Q702	B-3 (F)	VR		R944	C-8 ©
Q703	B-4 🕞	R419	A-6 ©	R955	C-5 ©
Q705	C-3 (F)	R424	A-6 ©	R958	C-5 ©
Q706	C-3 (F)	R428	A-6 ©	R986 R993	B-5 ©
Q707	C-3 🕑	R432	A-6 ©	R7005	B-5 © B-8 ©
Q708 ·	C-3 (F)	R437	A-6 ©	R7005	B-6 © B-7 ©
Q709	B-3 €	R442	A-6 ©	R7000	C-8 ©
Q712	C-3 (F)	R519	B-7 ©	R7012	B-8 ©
Q713	C-3 ®	R520	B-7 ©	R7013	B-8 ©
Q714	C-3 ®	R523	B-7 ©	R7023	B-8 ©
Q715	C-2 (F)	R534	B-6 ©	R7024	8-8 ©
Q716	C-2 (F)	R568	A-7 ©	R7036	C-5 ©
Q717	B-2 (F)	R745	C-8 ©		
Q718	B-3 (F)	R787	C-6 ©	Test Point	
Q719	B-3 (F)	R788	C-8 ©	TPC1	C-7 ©
Q720	C-2 (F)	R791	C-6 ©	TPC2	C-5 ©
Q721 Q722	C-2 (Ē) C-2 (Ē)	R870 R871	C-8 © C-8 ©	TPC3	A-8 ©
Q722 Q723	C-2 (F)	R873	C-8 ©	TPC4	A-7 ©
Q723	C-2 (F)	R876	C-8 ©	TP31	A-6 ©
Q725	C-2 (F)	R878	C-8 ©	TP33	A-7 ©
Q120	0-2 (F)	1070			

ADDRESS INFORMATION

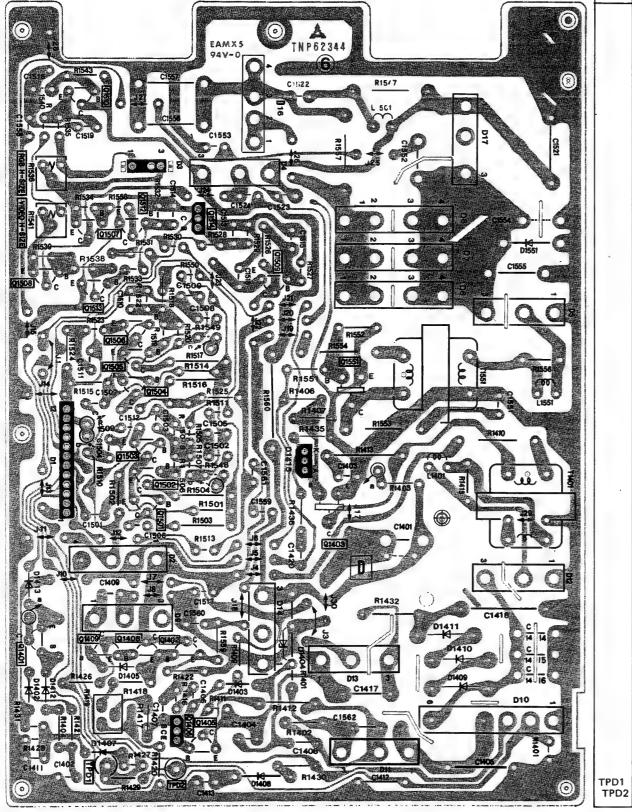
© ··· COMPONENT SIDE

(F) ··· FOIL SIDE



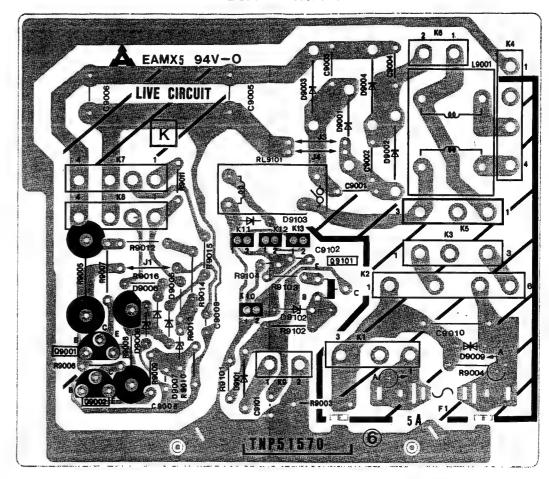
Test Point	Transistor	I.C.
	Q1003 Q1004	IC1004
	Q1005 Q1002	IC1001
		IC1002
ТРМЗ		
TPM5 TPM2 TPM4 TPM1	Q1001	
	Q1010	

D-BOARD TNP62344AZ

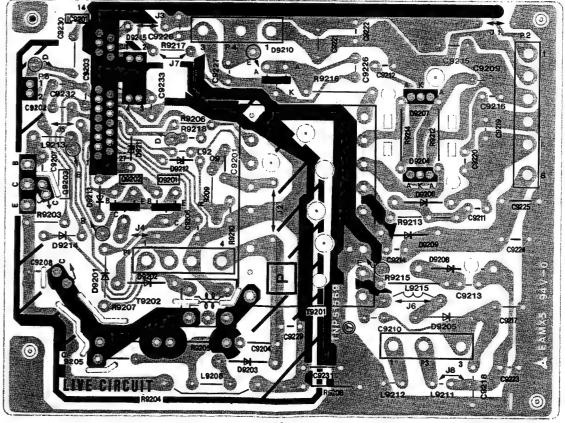


Test Point	VR	Transistor
		Q1510
	R1536	
	R1541	Q1512 Q1514 Q1507
		Q1509 Q1508 Q1513 Q1506 Q1505 Q1551
		Q1504 Q1503
		Q1502 Q1403 Q1501
		Q1409 Q1402 Q1401 Q1408
TPD1		Q1406 Q1405

K-BOARD TNP51570BZ



P-BOARD TNP51569BZ



SCHEMATIC DIAGRAM FOR MODEL PT-102N/GN/AN/SN (CHASSIS NO. Q5)

Important safety notice

Components identified by \triangle mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

NOTE:

1. RESISTOR

All resistors are carbon 1/4W resistor, unless otherwise noted the following marks. Unit of resistance is OHM (Ω), (K = 1,000, M = 1,000,000).

- △ : Solid□ : Wire Wound(F) : Non-Flamble
- : Metal Oxide
 : Lead Less Type
- : Fixed Metal Film

2. CAPACITOR

All capacitors are ceramic 50V capacitor, unless otherwise noted the following marks. Unit of capacitance is μF , unless otherwise noted.

Electrolytic

Bipolar

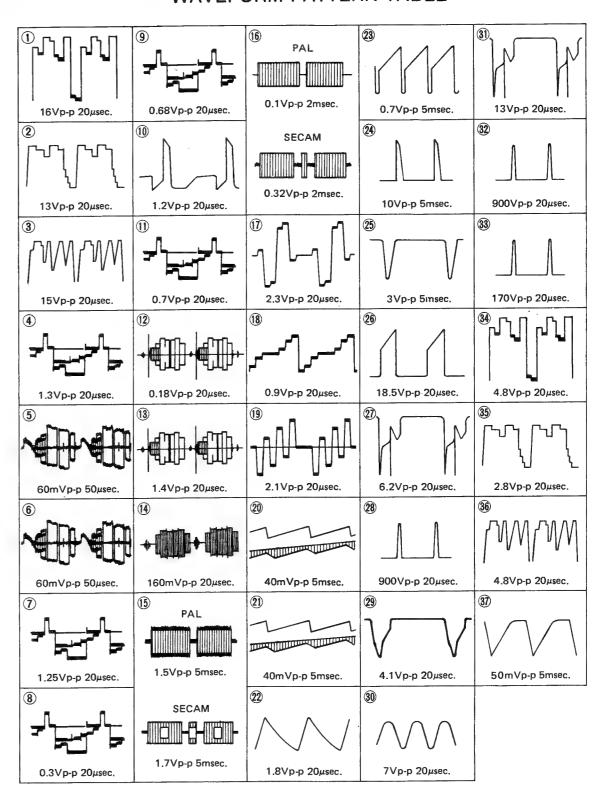
- ②: Z Type
 ①: Dipped Tantalum
 ①F: TF Type

3. COIL

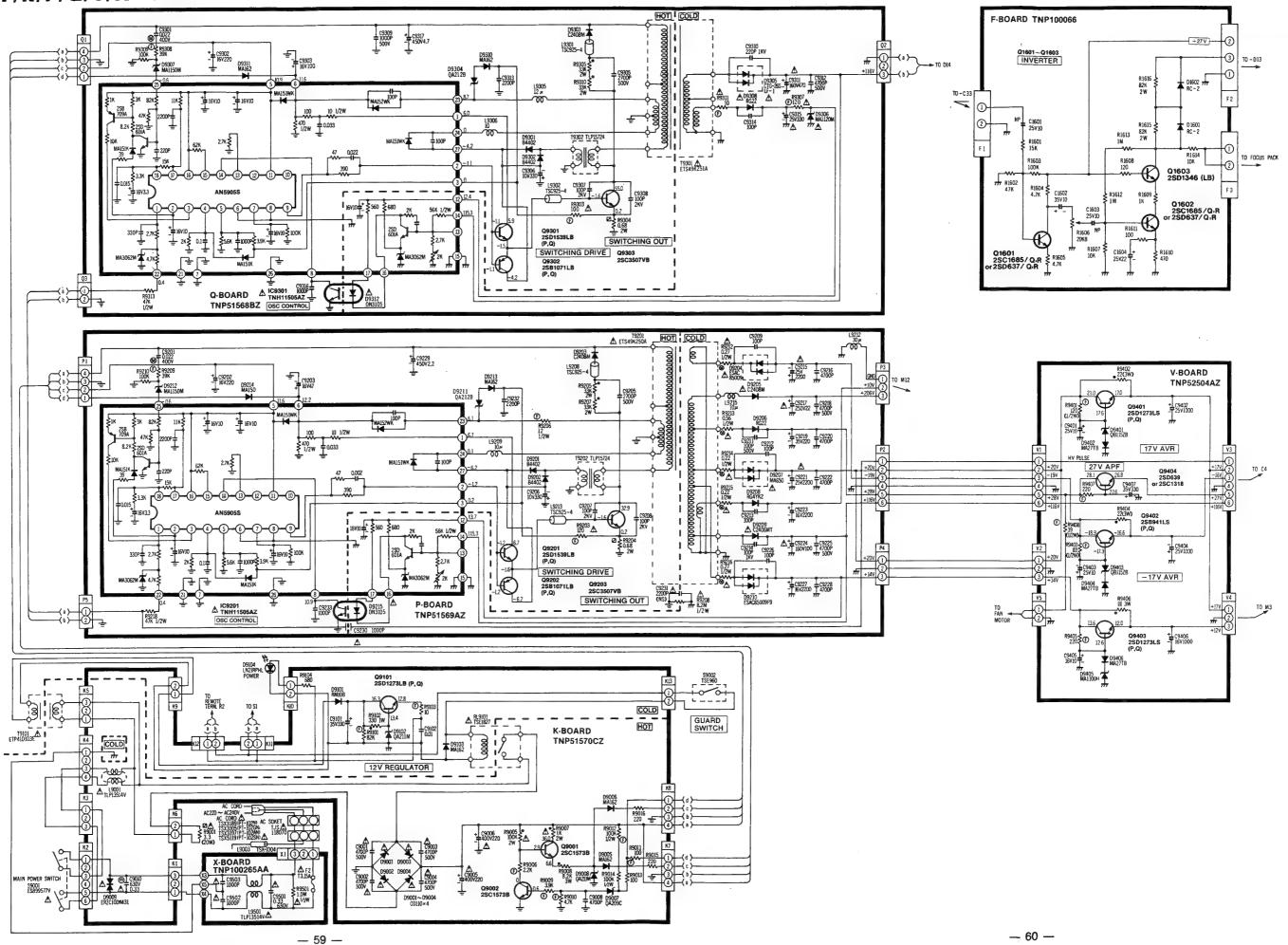
Unit of inductance is μH .

- 4. TEST POINT
- √ : Test point position
 5. VOLTAGE MEASUREMENT
 - Voltage is measured by a VTVM receiving colour bar signal, when all customer's controls are set to the maximum position.
- 6. When arrow mark () is found, connection is easily found along with the direction of an arrow
- When schematic diagram of a board is described in more than two places, they are encircled with dotted line......
- 8. Video Signal R, G, B Signal H/V, H, V Pulse
- This schematic diagram is the latest at the time of printing and subject to change without notice.

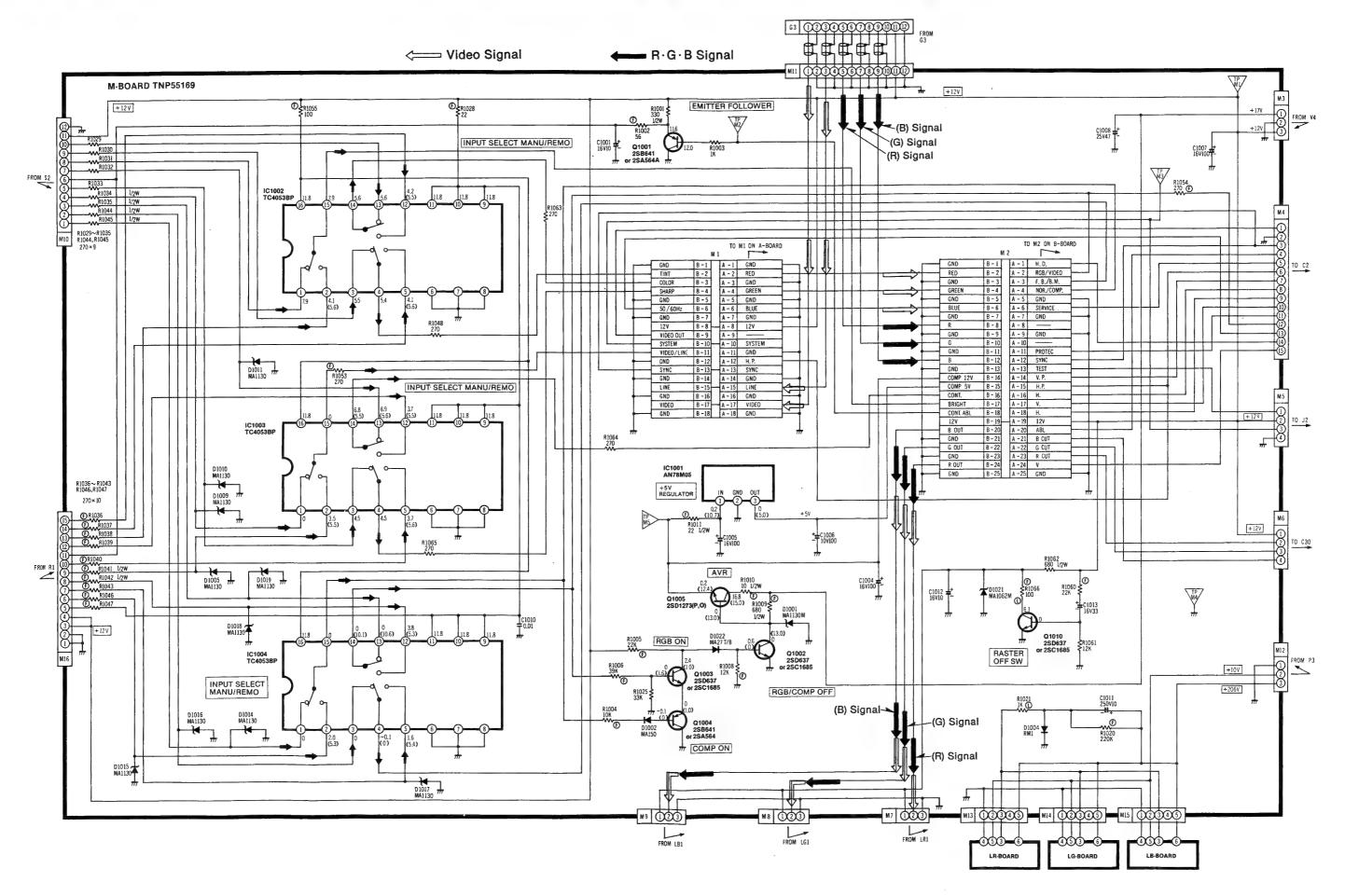
WAVEFORM PATTERN TABLE

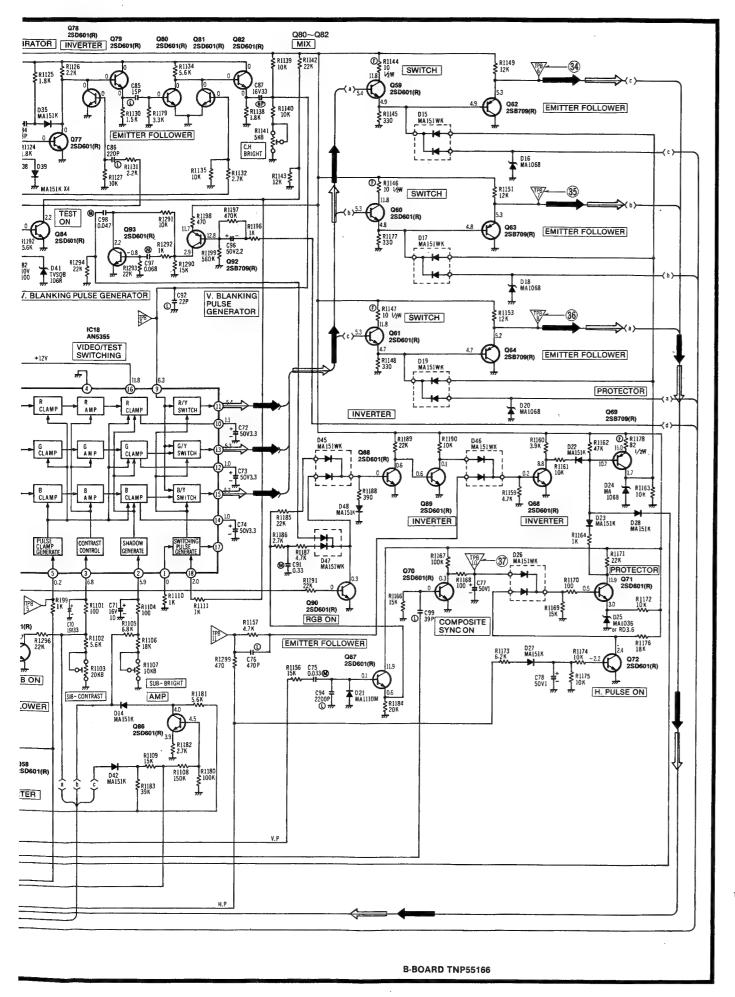


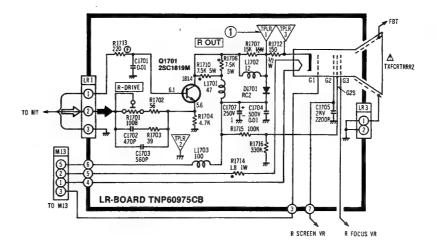
F/K/P/Q/V/X-BOARD Section

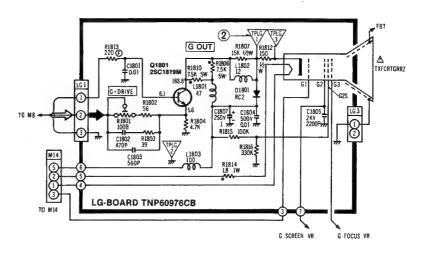


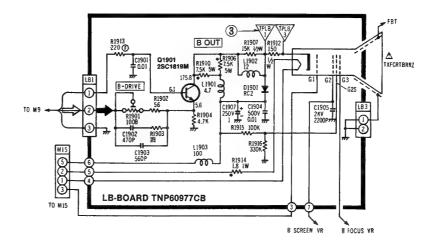
M-BOARD Section

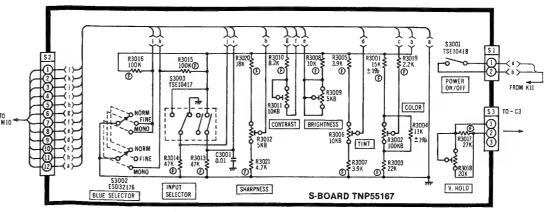


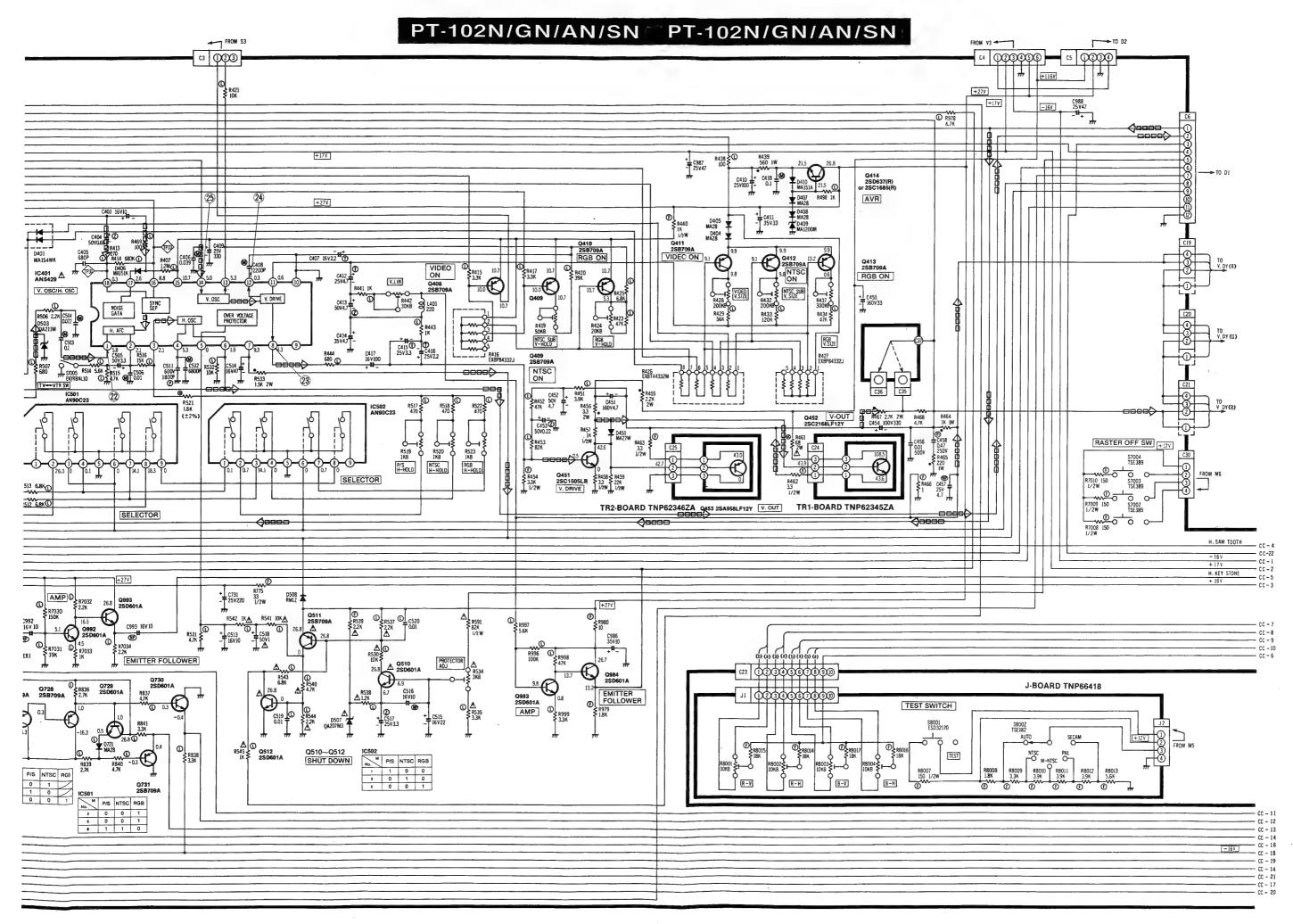




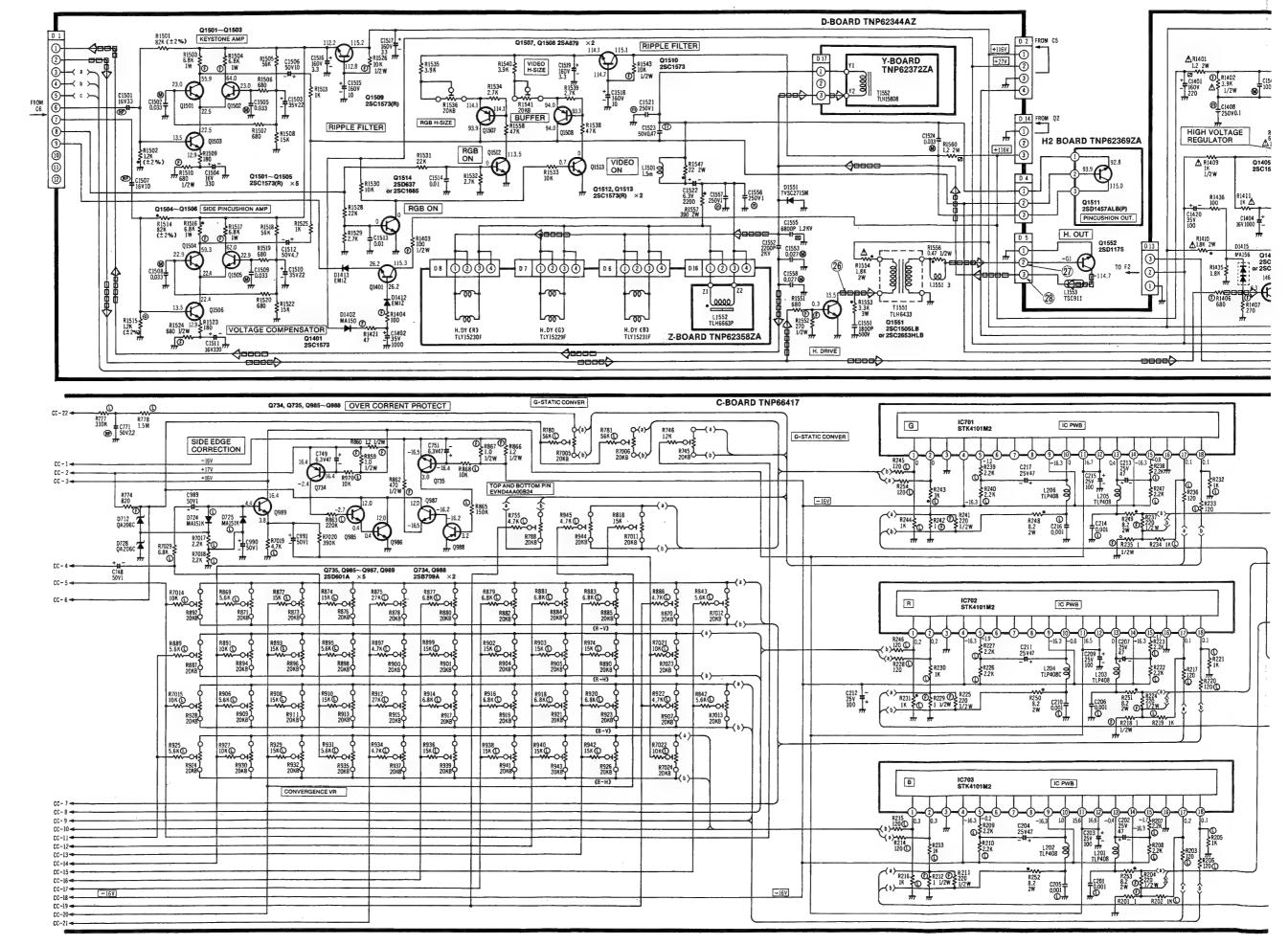


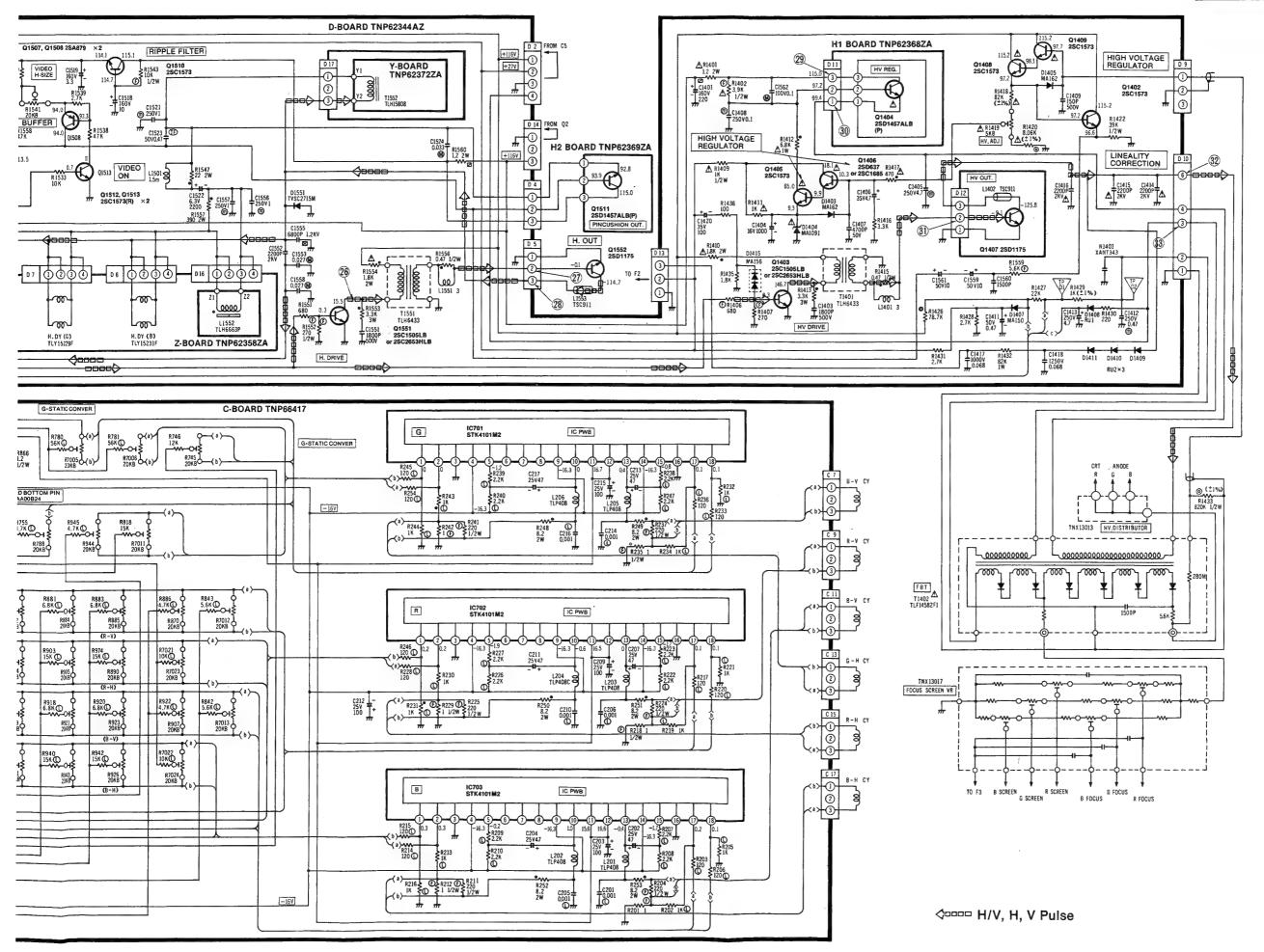




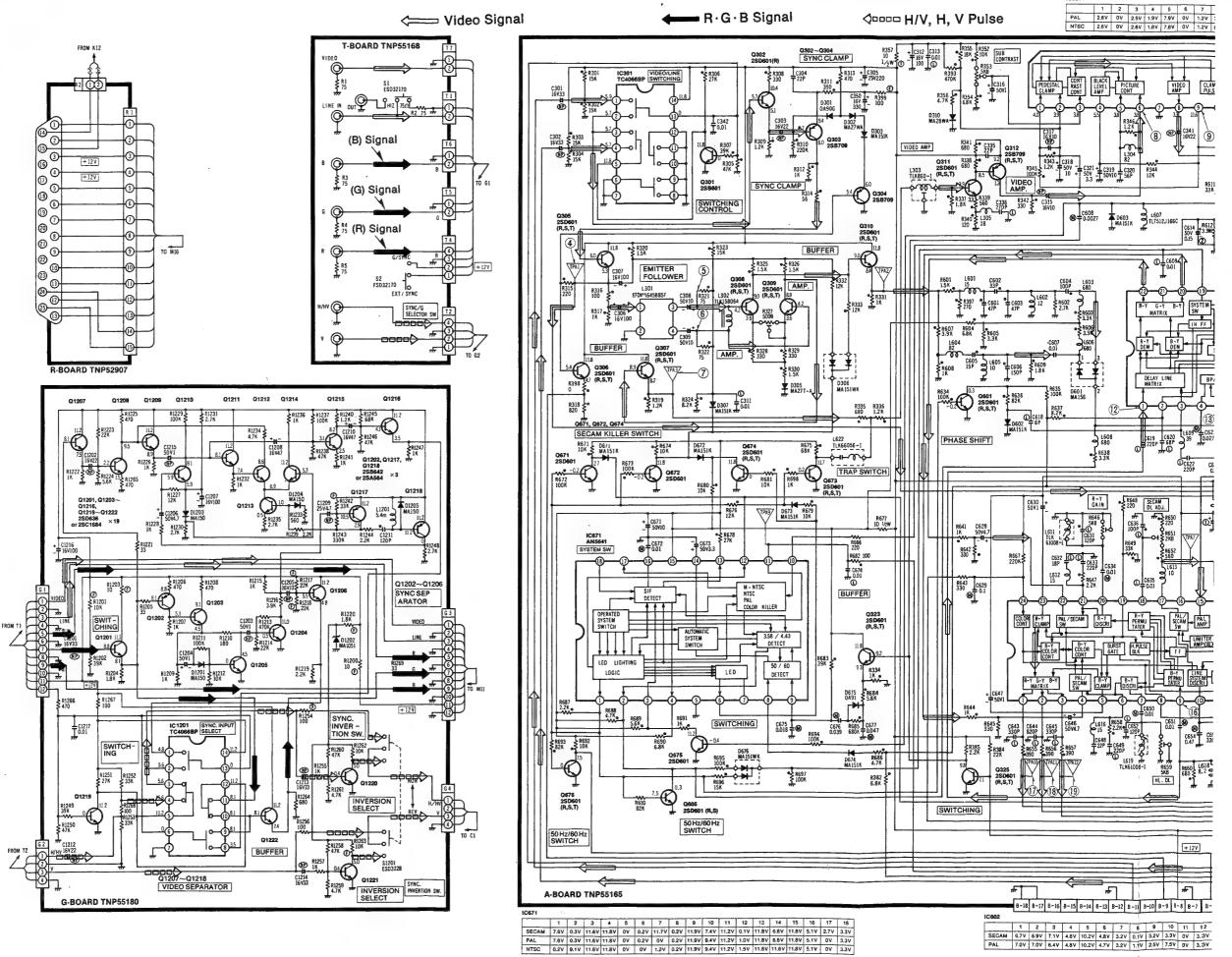


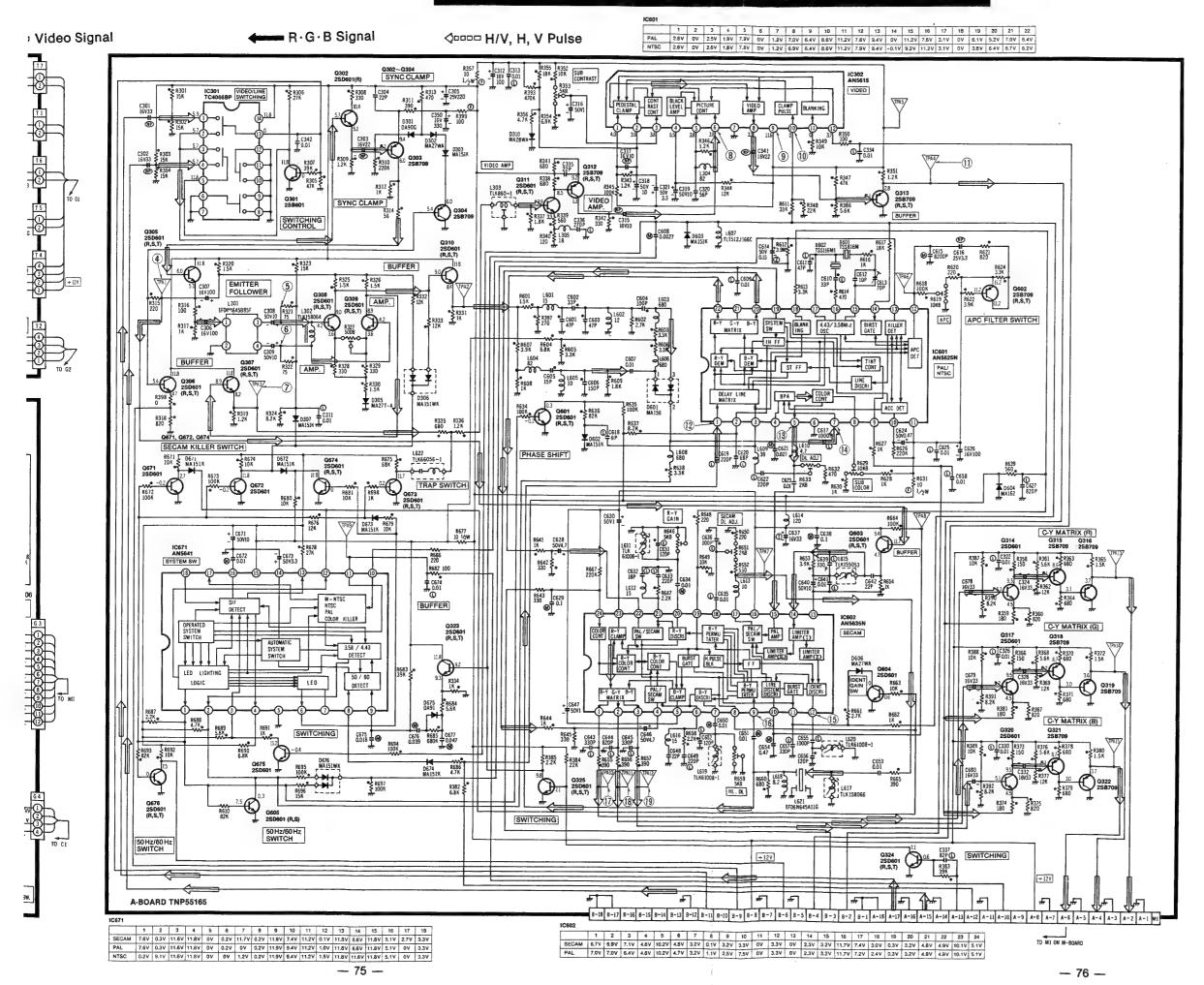
C/D/Y/Z/H1/H2-BOARD Section



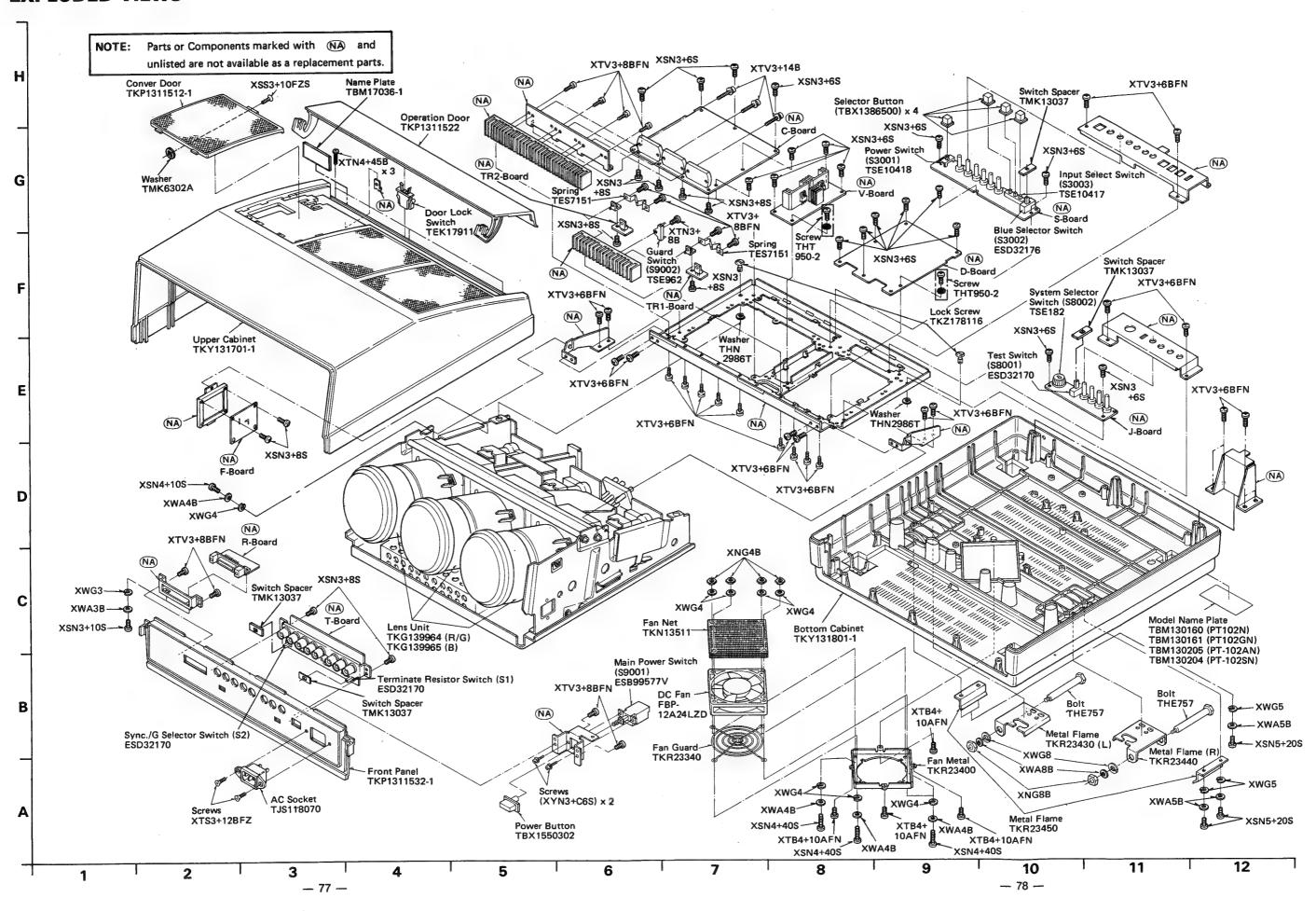


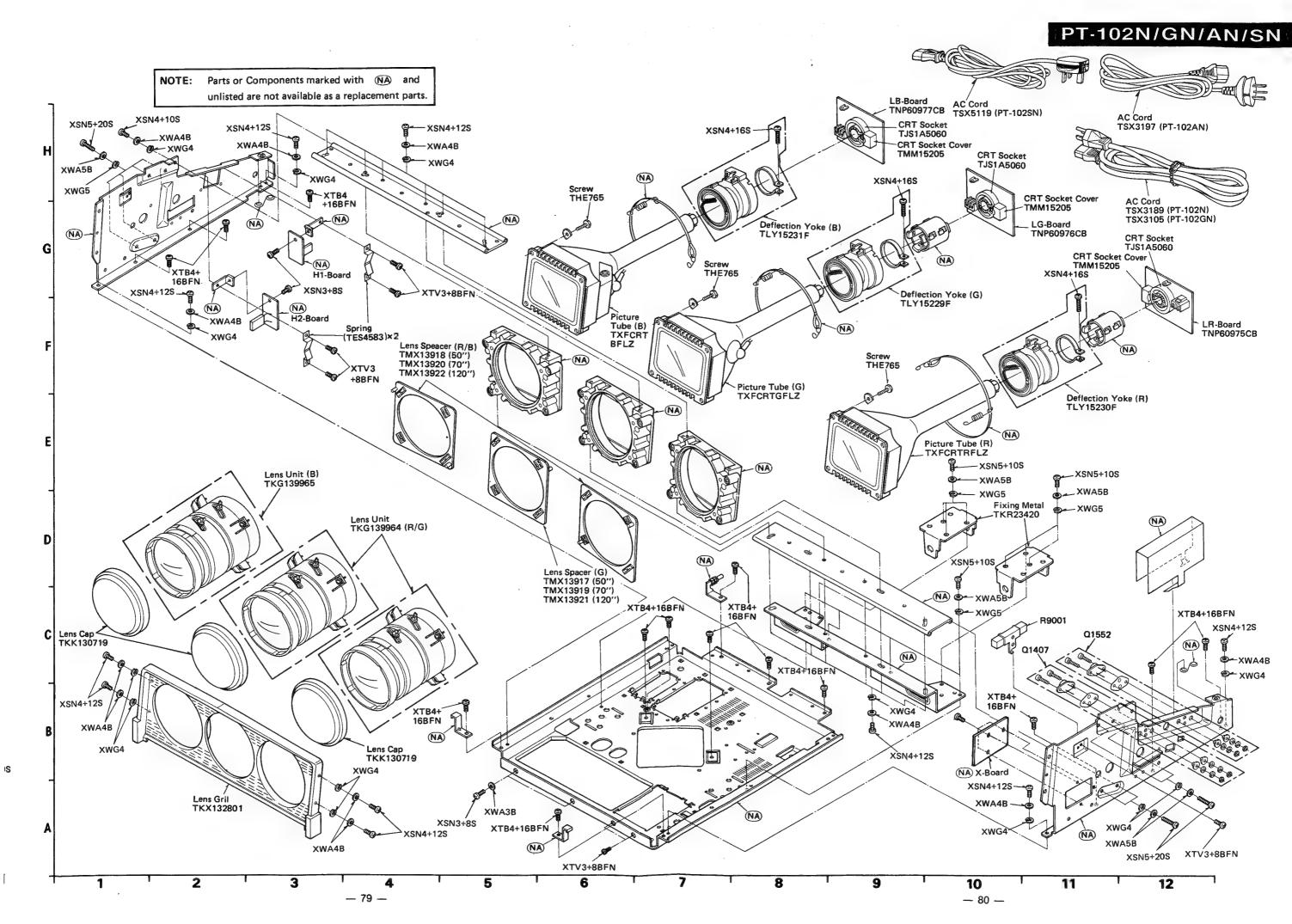
PT-102N/GN/AN/SN PT-10

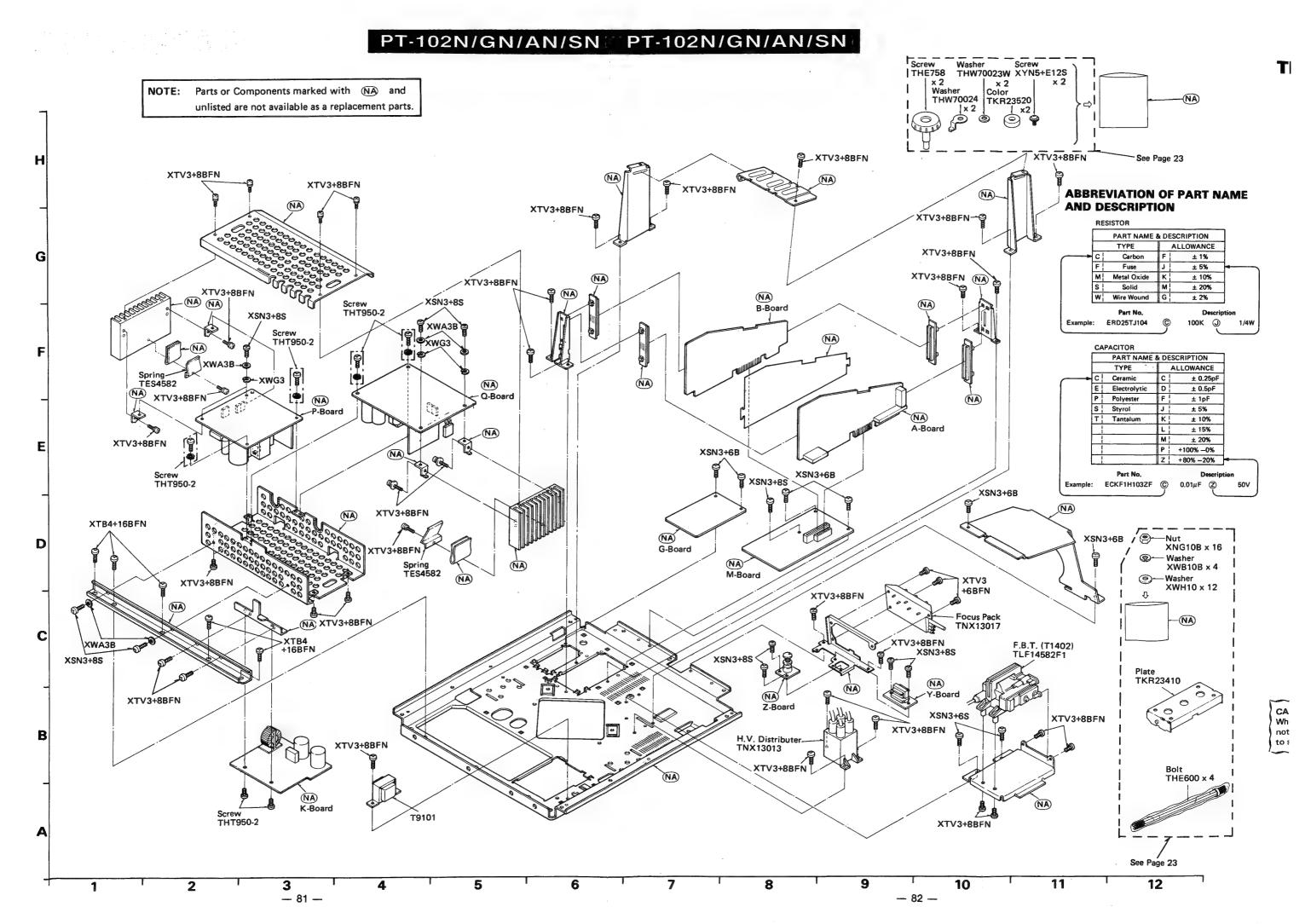




EXPLODED VIEWS







TPB36 (B), always short circuit TPB1 and

YES

LB-Board and CRT.

Check M-Board, LR-Board, LG-Board,

TPB2.

TROUBLESHOOTING

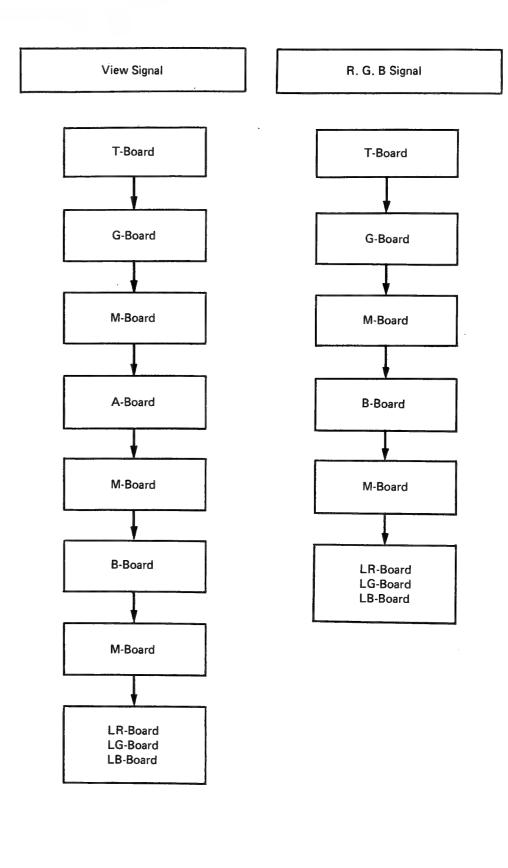
[NO PICTURE] ☐ Push the "VIDEO" switch of input selector. Apply a video signal to the VIDEO INPUT terminal. Remote the A and B-Board fixing metal. Remote the B-Board (TNP55166) Power switch is "ON" position. Check below for the video signal check point of A-Board (TNP55165) NO • IC301 ① pin Check T-Board, G-Board, M-Board 1/4W Check below for the video Signal test points of A-Board (TNP55165) **CAUTION:** • TPA13 (R) NO • TPA14 (G) When checking the circuit, take special care not to damage the CRT neck section or not TPA15 (B) to short circuit the circuit. Power switch is YES "OFF" position. Replace the B-Board (TNP55166) Check A-Board signal path for the waveform of the respective parts and voltage with reference to the circuit diagram. Apply a video signal to the G · G/SYNC Push the "RGB" switch INPUT terminal. 2 Select the G/EXT SYNC SELECTOR of input selector. SWITCH to "SYNC ON G" position. NO Remove the A-Board (TNP55165) Check T-Board, G-Board, M-Board Power switch is "ON" position Check below for the video signal check point of B-Board (TNP55166) TPB2 (G) Check below for the video Signal test points of B-Board (TNP55166). • TPB34 (R) CAUTION: TPB35 (G) When checking the circuit, take special care TPB36 (B) not to damage the CRT neck section or not Note: NO to short circuit the circuit. At this time, when checking TPB34 (R), always circuit TPB1 and TPB2, or checking

Check B-Board signal path for the waveform of the respective parts and voltage with

— 83 —

reference to the circuit diagram.

Signal Road



REPLACEMENT PARTS LIST

Important safety notice -

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Note: All the printed circuit boards except LR-Board, LG-Board and LB-Board are not available as a complete printed circuit board.

Note:	All the printed circuit bo	ard	s except LR-Boar	rd, LG-Board a			mple		
Ref. No.	Part No.		Descript	ion	Ref. No.	Part No.		Descript	ion
	RESISTORS		1		R47	ERJ8GCYJ561	М	5600HM,	J,1/8W
					R48	ERJ8GCYJ103	М	10KOHM,	J, 1/8W
R1	ERD25FJ750	Ç	750HM,	J. 1/4W	R49	ERJ8GCYJ153	М	15KOHM,	J, 1/8W
R2	ERD25FJ750	С	750HM,	J, 1/4W	R50	ERJ8GCYJ152	М	1.5KOHM,	J, 1/8W
R3	ERD25FJ750	С	750HM,	J, 1/4W	R51	ERJ8GCYJ102	М	1KOHM.	J, 1/8W
R4	ERD25FJ750	С	750HM.	J, 1/4W					
R5	ERD25FJ750	С	750HM.	J. 1/4W	R52	ERJ8GCYJ103	М	10KOHM,	J,1/8W
					R53	ERJ8GCYJ103	M	10KOHM,	J,1/8W
R10	ERJ8GCYJ153	M	15KOHM,	J,1/8W	R54	ERJ8GCYJ103	М	10KOHM,	J,1/8W
R11	ERJ8GCYJ622	м	6.2KOHM,	J,1/8W	R55	ERJ8GCYJ103	М	10KOHM,	J,1/8W
R12	ERJ8GCYJ153	М	15KOHM.	J,1/8W	R56	ERJ8GCYJ391	М	3900HM,	J,1/8W
R13	ERJ8GCYJ622	м	6.2KOHM.	J,1/8W					
R14	ERJ8GCYJ153	М	15KOHM,	J,1/8W	R57	ERJ8GCYJ391	M	3900HM,	J,1/8W
					R58	ERJ8GCYJ391	М	3900HM,	J,1/8W
R15	ERJ8GCYJ622	м	6.2KOHM,	J,1/8W	R59	ERJ8GCYJ391	M	3900HM,	J,1/8W
R16	ERJ8GCYJ391	м	3900HM,	J,1/8W	R60	ERJ8GCYJ102	M	1KOHM,	J,1/8W
R17	ERJ8GCYJ391	М	3900HM,		R61	ERJ8GCYJ102	M	1KOHM,	J,1/8W
R18	ERJ8GCYJ391	М	3900HM,	J, 1/8W					
R19	ERJ8GCYJ681	M	6800HM.	J,1/8W	R62	ERJ8GCYJ102	M	1KOHM,	J,1/8W
					R63	ERJ8GCYJ102	M	1KOHM,	J,1/8W
R20	ERJ8GCYJ271	М	2700HM,	J, 1/8W	R64	ERJ8GCYJ751	М	7500HM,	J,1/8W
R21	ERJ8GCYJ681	М	6800HM,	J, 1/8W	R65	ERJ8GCYJ102	M	1KOHM,	J,1/8W
R22	ERJ8GCYJ271	М	2700HM,	J, 1/8W	R66	ERJ8GCYJ102	M	1KOHM,	J,1/8W
R23	ERJ8GCYJ681	М	6800HM,						
R24	ERJ8GCYJ271	М	2700HM,	J.1/8W	R67	ERJ8GCYJ751	М	7500HM,	J,1/8W
112					R68	ERJ8GCYJ123	M	12KOHM,	J,1/8W
R25	ERJ8GCYJ153	М	15KOHM,	J, 1/8W	R69	ERJ8GCYJ103	М	10KOHM,	J,1/8W
R26	ERJ8GCYJ622	М	6.2KOHM,	J,1/8W	R70	ERJ8GCYJ391	M	3900HM,	J,1/8W
R27	ERJ8GCYJ153	M	15KOHM,	J,1/8W	R71	ERJ8GCYJ272	M	2.7KOHM,	J,1/8W
R28	ERJ8GCYJ622	M	6.2KOHM,	J,1/8W					
R29	ERJ8GCYJ153	M	15KOHM,	J,1/8W	R72	ERJ8GCYJ391	M	3900HM,	J,1/8W
					R73	ERJ8GCYJ272	M	2.7KOHM,	J,1/8W
R30	ERJ8GCYJ622	М	6.2KOHM,	J,1/8W	R74	ERJ8GCYJ123	M	12KOHM,	J,1/8W
R31	ERJ8GCYJ122	M	1.2KOHM,	J,1/8W	R75	ERJ8GCYJ103	M	10KDHM,	J,1/8W
	ERJ8GCYJ471	M	4700HM,	J,1/8W	R76	ERJ8GCYJ221	M	2200HM,	J,1/8W
R33		M	1.2KOHM,	J,1/8W					
R34		M	4700HM,	J,1/8W	R77	ERJ8GCYJ241	M		
					R78		M	10KOHM,	
R35	ERJ8GCYJ122	M	1.2KOHM,		R79		M	1 OKOHM,	
R36		1.		J,1/8W	R80	ERJ8GCYJ221	M	2200HM,	
R37		M	1.2KOHM,	J,1/8W	R81	ERJ8GCYJ241	M	2400HM,	J,1/8W
R38		M	1.2KOHM,	J,1/8W					
R39		M	1.2KOHM,	J,1/8W	11	ERJ8GCYJ123	M		
					11	ERJ8GCYJ103	M		
R40	ERJ8GCYJ332	M	3.3KOHM,		11	ERJ8GCYJ123	M		
R41	ERJ8GCYJ821	М		J,1/8W	11	ERJ8GCYJ103	M		
R42	ERJ8GCYJ821	M		J,1/8W	R86	ERJ8GCYJ221	M	2200HM,	J,1/8W
R43	ERJ8GCYJ821	M		J,1/8W					
R44	ERJ8GCYJ102	M	1KOHM,	J,1/8W	R87	1	M		
					R88		M		
R45	ERJ8GCYJ472		4.7KOHM,		R89		M		
R46	ERJ8GCYJ562	M	5.6KOHM,	J,1/8W	R90	ERJ8GCYJ393	M	39KOHM,	J,1/8W
1									

Ref. No.	Part No.		Descript	tion	Ref. No.	Part No.		Descript	ion
R91	ERJ8GCYJ393	м	39KOHM,	J,1/8W	R140	ERJ8GCYJ102	М	1KOHM,	J,1/8W
	ERJ8GCYJ202	М	2KOHM,	J,1/8W	R141	ERJ8GCYJ102	М	1KOHM,	J.1/8W
	ERJ8GCYJ202	М	2KOHM,	J,1/8W	R142	ERJ8GCYJ102	М	1KOHM,	J,1/8W
1	ERJ8GCYJ202	М	2KOHM,	J,1/8W	R143	ERJ8GCYJ102	M	1KOHM,	J,1/8W
R95	ERJ8GCYJ152	м	1.5KOHM,	J,1/8W	R145	ERJ8GCYJ101	М	100OHM,	J, 1/8W
R96	ERJ8GCYJ152	М	1.5KOHM,	J,1/8W	R146	ERJ8GCYJ101	M	1000HM,	J, 1/8W
R97	ERJ8GCYJ152	M	1.5KOHM,	J,1/8W	R147	ERJ8GCYJ101	M	1000HM,	J, 1/8W
R98	ERJ8GCYJ101	М	100OHM,	J, 1/8W	R148	ERJ8GCYJ101	М	100OHM,	J, 1/8W
R99	ERJ8GCYJ271	М	2700HM,	J,1/8W	R149	ERJ8GCYJ101	M	1000HM,	J, 1/8W
R100	ERJ8GCYJ101	М	1000HM,	J, 1/8W	R150	ERJ8GCYJ101	M	100OHM,	J, 1/8W
R101	ERJ8GCYJ563	M	56КОНМ,	J, 1/8W	R151	ERJ8GCYJ271	M	2700HM,	J,1/8W
	ERDS1FJ100	С	100HM,		R152	ERJ8GCYJ271	M	2700HM,	J,1/8W
R103	ERJ8GCYJ561	М	5600HM,	J,1/8W	R153	ERJ8GCYJ271	M	2700HM,	J,1/8W
R104	ERDS1FJ100	С	100HM,		R154	ERJ8GCYJ241	M	2400HM,	J,1/8W
	ERJ8GCYJ561	M	5600HM,	J,1/8W	R155	ERJ8GCYJ241	M	2400HM,	J,1/8W
	ERDS1FJ100	С	100HM,		R156	ERJ8GCYJ241	M	2400HM,	J, 1/8W
	ERJ8GCYJ561	М	5600HM,		R157	ERJ8GCYJ241	M M	2400HM,	J, 1/8W
	ERJ8GCYJ824	M	820KOHM,		R158	ERJ8GCYJ241 ERJ8GCYJ241	M	2400HM, 2400HM,	J,1/8W J,1/8W
1	ERJ8GCYJ103	M	10KOHM, 2200HM,		R159 R160	ERJ8GCYJ272	M	2.7KOHM,	J, 1/8W
1	ERJ8GCYJ221	M	820KOHM,		R161	ERJ8GCYJ153	M	15KOHM,	J,1/8W
R111	ERJ8GCYJ824 ERJ8GCYJ103	M	10KOHM,		R162	ERJ8GCYJ272	М	2.7KOHM,	J, 1/8W
	ERUSGCYU221	М	2200HM,		R163	ERJ8GCYJ153	М	15KOHM,	J, 1/8W
KIIS	EROSGCTOZZT	'''	22001111,	0,1,0	R164	ERJ8GCYJ272	М	2.7KOHM,	J, 1/8W
R114	ERJ8GCYJ824	м	820KOHM,	J,1/8W	R165	ERJ8GCYJ153	М	15KOHM,	J, 1/8W
1	ERJ8GCYJ103	М	10KOHM,		R166	ERJ8GCYJ271	М	2700HM,	J, 1/8W
•	ERJ8GCYJ221	М	2200HM,		R167		M	2700HM,	
R117		С	100HM,		R168	ERJ8GCYJ271	М	2700HM,	J,1/8W
	ERJ8GCYJ102	М	1KOHM,	J, 1/8W	R172	ERJ8GCYJ271	М	2700HM,	J,1/8W
					R173	ERJ8GCYJ241	М	2400HM,	J,1/8W
R119	ERDS1FJ100	С	100HM,	J,1/2W	R174	ERJ8GCYJ271	M	2700HM,	
R120	ERJ8GCYJ102	M	1KOHM,	J,1/8W	R175		М	2400HM,	J,1/8W
R121	ERDS1FJ100	С	100HM,	J,1/2W	R176		М	2700HM,	
R122	ERJ8GCYJ102	M	1KOHM,		R177		M	2400HM,	
R123	ERJ8GCYJ103	M	10KOHM,	J,1/8W		ERJ8GCYJ152		1.5KOHM,	
						ERJ8GCYJ152		1.5KOHM,	
	ERJ8GCYJ183	M				ERJ8GCYJ152	1	1.5KOHM,	
	ERJ8GCYJ682		6.8KOHM,			ERJ8GCYJ472		4.7KOHM,	
	ERJ8GCYJ152		1.5KOHM,			ERJ8GCYJ103	M	3.3KOHM,	J,1/8W
	ERJ8GCYJ472		4.7KOHM,		R183		i .	1.2KOHM,	
	ERJ8GCYJ562		5.6KOHM, 2.2KOHM,		R184	ERUSGCYU122 ERUSGCYU102	М		J, 1/8W
	ERJ8GCYJ222		1.2KOHM,		R186	EVN64AA00B14	ŀ	V.REVISION	
	ERJ8GCYJ122	M	1.2KUNM, 1KOHM,		R187			3.3KOHM,	
1	ERJ8GCYJ102 ERJ8GCYJ101	M	100OHM,		R188			4.7KOHM,	
R132	EVN64AAOOB54	1		50KOHMB	11	ERJ8GCYJ562	,	5.6KOHM,	
R134		М	56KOHM,		11	ERJ8GCYJ202	М		J, 1/8W
1	ERJ8GCYJ223	М				ERJ8GCYJ102	M		J, 1/8W
	ERJ8GCYJ102	М	1KOHM,			EVN64AAOOB13		REVISION	1KOHMB
	ERJ8GCYJ102	M			11	ERJ8GCYJ332		з.зконм,	
	ERJ8GCYJ103	M			R194	ERJ8GCYJ101	М	1000HM,	J, 1/8W
1	ERJ8GCYJ103	M			R195	ERJ8GCYJ153	M	15KOHM,	J,1/8W
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Ref. No.	Part No.	Descrip	tion	Ref. No.	Part No.	Descrip	tion
R196	ERJ8GCYJ392	м з.9конм,	J,1/8W	R241	ERDS1FJ221	C 2200HM,	J, 1/2W
R197	ERJ8GCYJ472	M 4.7KOHM.		R242	ERDS1FJ1RO	C 10HM,	J, 1/2W
R198	ERJ8GCYJ122	M 1.2KOHM.		R243	ERJ8GCYJ102	M 1KOHM,	J,1/8W
R199	ERJ8GCYJ102	M 1KOHM.		R244	ERJ8GCYJ102	M 1KOHM,	J, 1/8W
R201	ERDS1FJ1RO	C 10HM,		R245	ERJ8GCYJ121	M 1200HM,	J,1/8W
R202	ERJ8GCYJ102	M 1KOHM,	J,1/8W	R246	ERJ8GCYJ121	M 1200HM.	J, 1/8W
R203	ERJ8GCYJ121	M 1200HM,		R247	ERJ8GCYJ222	M 2.2KOHM.	
R204	ERDS1FJ221	C 2200HM,		R248	ERX2SJ8R2H	M 8.20HM,	J, 2W
R205	ERJ8GCYJ102	M 1KOHM,		R249	ERX2SJ8R2H	M 8.20HM,	J, 2W
R206	ERJ8GCYJ121	M 1200HM,		R250	ERX2SJ8R2H	M 8.20HM,	J, 2W
R207	ERJ8GCYJ222	M 2.2KOHM,	J,1/8W	R251	ERX2SJ8R2H	M 8.20HM,	J, 2W
R208	ERJ8GCYJ222	M 2.2KOHM,		R252	ERX2SJ8R2H	M 8.20HM,	J, 2W
R209		M 2.2KOHM,	J,1/8W	R253	ERX2SJ8R2H	M 8.20HM,	
R210	· ·	M 2.2KOHM,	J,1/8W	R254	ERJ8GCYJ121	M 1200HM,	J,1/8W
R211	ERDS1FJ221	C 2200HM,	J,1/2W	R255	ERJ8GCYJ472	M 4.7KOHM,	J,1/8W
R212	ERDS1FJ1RO	C 10HM,	J,1/2W	R256	ERJ8GCYJ222	M 2.2KOHM,	J,1/8W
R213	ERJ8GCYJ102	M 1KOHM.		R257	ERJ8GCYJ222	M 2.2KOHM,	J,1/8W
R214	ERJ8GCYJ121	M 1200HM,	J, 1/8W	R301	ERJ8GCYJ153	M 15KOHM,	J,1/8W
R215	ERJ8GCYJ121	M 1200HM,		R302	ERJ8GCYJ153	M 15KOHM,	J,1/8W
R216	ERJ8GCYJ102	M 1KOHM.		R303	ERJ8GCYJ153	M 15KOHM,	J,1/8W
R217	ERJ8GCYJ121	M 1200HM,	J,1/8W	R304	ERJ8GCYJ153	M 15KOHM,	J,1/8W
R218	ERDS1FJ1RO	C 10HM,	J,1/2W	R305	ERJ8GCYJ473	M 47KOHM,	
R219	ERJ8GCYJ102	M 1KOHM,	J,1/8W	R306	ERJ8GCYJ273	M 27KOHM,	
R220	ERJ8GCYJ121	M 1200HM,	J,1/8W	R307	ERJ8GCYJ393	м зэконм.	
R221	ERJ8GCYJ102	M 1KOHM,	J,1/8W	R308	ERJ8GCYJ331	м ззоонм,	J,1/8W
R222	ERJ8GCYJ222	M 2.2KOHM,	J,1/8W	R309		M 1.2KOHM,	
R223	ERJ8GCYJ222	M 2.2KOHM,	J,1/8W	R310	ERJ8GCYJ224	M 220KOHM,	
R224	ERDS1FJ221	C 2200HM.	-	R311		M 3900HM	
R225	ERDS1FJ221	C 2200HM,		11	ERJ8GCYJ102	M 1KOHM	
R226	ERJ8GCYJ222	M 2.2KOHM,	J,1/8W	R313	ERJ8GCYJ471	M 4700HM	J,1/8W
R227	ERJ8GCYJ222	M 2.2KOHM,		11	ERJ8GCYJ560		J,1/8W
R228	ERJ8GCYJ121	M 1200HM,			ERJ8GCYJ221		J,1/8W
R229	ERDS1FJ1RO	C 10HM,	J,1/2W		ERJ8GCYJ101		J,1/8W
R230	ERJ8GCYJ102	M 1KOHM,		11	ERJ8GCYJ102		J,1/8W
R231	ERJ8GCYJ102	M 1KOHM,	J,1/8W	R318	ERJ8GCYJ821	M 8200HM	, J, 1/8W
R232	ERJ8GCYJ102	M 1KOHM,	J,1/8W				
R233		M 1200HM,	J,1/8W	R319	ERJ8GCYJ122	M 1.2KOHM	J,1/8W
R234		M 1-KOHM,		11			
R235		C 10HM,		11	ERJ8GCYJ152	M 1.5KOHM	
R236	1	M 1200HM	, J,1/8W	R321	ERJ8GCYJ750	M 750HM	, J,1/8W
R237	ERDS1FJ221	C 2200HM	J,1/2W		ERJ8GCYJ750		J,1/8W
R238		M 2.2KOHM,		III .	ERJ8GCYJ153		J,1/8W
R239		M 2.2KOHM,		11	ERJ8GCYJ822	M 8.2KOHM	
R240		M 2.2KOHM,	J,1/8W	R325	ERJ8GCYJ152	M 1.5KOHM	, J,1/8W
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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	ERJ8GCYJ152	M 1.5KOHM, J,1/8W	R370	ERJ8GCYJ681	M 6800HM, J,1/8W
R327	EVND4AAOOB52	5000HMB	R371	ERJ8GCYJ681	M 6800HM, J,1/8W
R328	ERJ8GCYJ331	M 3300HM, J,1/8W	R372	ERJ8GCYJ152	M 1.5KOHM, J.1/8W
R329	ERJ8GCYJ331	M 3300HM, J,1/8W	R373	ERJ8GCYJ151	M 1500HM, J,1/8W
R330	ERJ8GCYJ152	M 1.5KOHM, J,1/8W	R374	ERJ8GCYJ181	M 1800HM, J,1/8W
R331	ERJ8GCYJ102	M 1KOHM, J,1/8W	R375	ERJ8GCYJ821	M 8200HM, J,1/8W
R332	ERJ8GCYJ562	M 5.6KOHM, J,1/8W	R376	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R333	ERJ8GCYJ123	M 12KOHM, J,1/8W	R377	ERJ8GCYJ123	M 12KOHM, J,1/8W
R334	ERJ8GCYJ102	M 1KOHM, J,1/8W	R378	ERJ8GCYJ681	M 6800HM, J,1/8W
R335	ERJ8GCYJ681	M 6800HM, J,1/8W	R37.9	ERJ8GCYJ681	M 6800HM, J,1/8W
R336	ERJ8GCYJ122	M 1.2KOHM, J,1/8W	R380	ERJ8GCYJ152	M 1.5KOHM, J,1/8W
	ERJ8GCYJ182	M 1.8KOHM, J,1/8W	R381	ERJ8GCYJ181	M 1800HM, J,1/8W
R338	ERJ8GCYJ681	M 6800HM, J,1/8W	R382	ERJ8GCYJ682	M 6.8KOHM, J, 1/8W
R339	ERJ8GCYJ561	M 5600HM, J,1/8W	R383	ERJ8GCYJ393	M 39KOHM, J,1/8W
l .	ERJ8GCYJ121	M 1200HM, J,1/8W	R384	ERJ8GCYJ223	M 22KOHM, J,1/8W
D244	ERJ8GCYJ681	M 6800HM, J,1/8W	R385	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
	ERUSGCYU331	M 3300HM, J,1/8W		ERJ8GCYJ562	M 5.6KOHM, J,1/8W
1	ERUSGCYU122	M 1.2KOHM, J,1/8W	R387	ERJ8GCYJ103	M 10KOHM, J,1/8W
1	ERUBGCYU122	M 12KOHM, J,1/8W	R388		M 10K0HM, J,1/8W
		M 100KOHM, J,1/8W	R389	ERJ8GCYJ103	M 10KOHM, J,1/8W
K345	ERJ8GCYJ104	W TOOKOHM, U, 178W	K369	EROBGCTOTOS	
1	ERJ8GCYJ122	M 1.2KOHM, J,1/8W	R390	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
1	ERJ8GCYJ473	M 47KOHM, J,1/8W	R391	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
1	ERJ8GCYJ223	M 22KOHM, J,1/8W	R392		M 8.2KOHM, J,1/8W
1	ERJ8GCYJ103	M 10KOHM, J,1/8W	R393	ERJ8GCYJ474	M 470KOHM, J,1/8W
R350	ERJ8GCYJ101	M 1000HM, J,1/8W	R397	ERJ8GCYJ271	M 2700HM, J,1/8W
			R398	ERJ8GCY0R00	M 00HM, J, 1/8W
R351		M 1.2KOHM, J,1/8W	R399	ERDS1FJ101	C 1000HM, J, 1/2W
1	ERJ8GCYJ103	M 10K0HM, J,1/8W	R401	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
1	EVND4AAOOB53	SUB CONTRAST 5KOHMB	R402	1	M 4700HM, J,1/8W
	ERJ8GCYJ682	M 6.8KOHM, J,1/8W		ERJ8GCYJ471	M 4700HM, J,1/8W
R355	ERJ8GCYJ183	M 18KOHM, J,1/8W	R404	ERJ8GCYJ102	M 1KOHM, J,1/8W
1	ERJ8GCYJ472	M 4.7KOHM, J,1/8W	1	ERJ8GCYJ102	M 1KOHM, J,1/8W
	ERDS1FJ100	C 100HM, J,1/2W	1	ERJ8GCYJ101	M 1000HM, J,1/8W
R358	ERJ8GCYJ151	M 1500HM, J,1/8W	F	ERJ8GCZJ125	C 1.2MOHM, J,1/8W
R359	ERJ8GCYJ181	M 1800HM, J,1/8W	R413	ERJ8GCYJ271	M 2700HM, J,1/8W
R360	ERJ8GCYJ821	M 8200HM, J,1/8W	R414	ERJ8GCYJ684	м 680КОНМ, J,1/8W
R361	ERJ8GCYJ562	M 5.6KOHM, J,1/8W	R415	ERJ8GCYJ332	M 3.3KOHM, J,1/8W
	ERJ8GCYJ123	M 12KOHM, J, 1/8W		EXBP84332J	R-NETWORK
	ERJ8GCYJ681	M 6800HM, J,1/8W		ERJ8GCYJ332	M 3.3KOHM, J,1/8W
	ERJ8GCYJ681	M 6800HM, J,1/8W		EVND4AAOOB54	NTSC SUB V. HOLD
	ERJ8GCYJ152	M 1.5KOHM, J,1/8W			50KOHMB
			R420	ERJ8GCYJ393	м 39KOHM, J,1/8W
R366	ERJ8GCYJ151	M 1500HM, J,1/8W		ERJ8GCYJ103	M 10KOHM, J,1/8W
	ERJ8GCYJ821	M 8200HM, J,1/8W	1	ERJ8GCYJ473	M 47KOHM, J,1/8W
	ERJ8GCYJ562	M 5.6KOHM, J.1/8W		EVND4AAOOB24	RGB V. HOLD 20KOHMB
	ERJ8GCYJ123	M 12KOHM, J,1/8W	R425	ERJ8GCYJ682	M 6.8KOHM, J.1/8W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Descript	ion
R426	EXBT44332M	R-NETWORK	R491	ERJ8GCYJ271	M 2700HM.	J,1/8W
R427	EXBP84332J	R-NETWORK	R492	ERJ8GCYJ103	м 10КОНМ,	J,1/8W
R428	EVND4AAOOB25	VIDEO V. SIZE	R493	ERJ8GCYJ223	м 22КОНМ.	
		200KOHMB	R494	ERJ8GCYJ103	м токонм,	
R429	ERJ8GCYJ563	M 56KOHM, J,1/8W	R497	ERJ8GCYJ824	м 820КОНМ,	J,1/8W
R432	EVND4AAOOB25	NTSC SUB V. SIZE				
		200KOHMB	1	ERJ8GCYJ102	M 1KOHM,	J,1/8W
R433	ERJ8GCYJ124	M 120KOHM, J,1/8W		EXBP84332J	R-NETWORK	
1	ERJ8GCYJ473	M 47KOHM, J,1/8W		ERJ8GCYJ222	М 2.2КОНМ,	
	EVND4AAOOB35	RGB V. SIZE 300KOHMB		ERJ8GCYJ681	м 6800НМ,	
	ERJ8GCYJ101	M 1000HM, J,1/8W	R512	ERJ8GCYJ682	м 6.8КОНМ,	J,1/8W
	ERG1SJ561P	M 5600HM, J, 1W	5=.5			1 4 /OU
4	ERDS1FJ102	C 1KOHM, J,1/2W	1	ERJ8GCYJ682	M 6.8KOHM,	
R441	ERJ8GCYJ102	M 1KOHM, J,1/8W		ERJ8GCYJ562	M 5.6KOHM,	
R442		V. LIN 30KOHMB		ERJ8GCYJ472	M 4.7KOHM,	
R443		M 1KOHM, J,1/8W		ERJ8GCYJ153	M 15KOHM,	
R444	ERJ8GCYJ681	M 6800HM, J,1/8W	K51/	ERJ8GCYJ471	M 4700HM,	U, 1/8W
R451	ERJ8GCYJ392	M 3.9KOHM, J.1/8W	R518	ERJ8GCYJ471	M 4700HM,	J,1/8W
R452	ERJ8GCYJ473	M 47KOHM, J,1/8W	R519	EVND4AAOOB13	P/S H. HOLD	1KOHMB
R453	ERJ8GCYJ823	M 82KOHM, J,1/8W	R520	EVND4AAOOB13	NTSC V. HOLD	1KOHMB
R454	ERDS1FJ332	C 3.3KOHM, J,1/2W	R521	ER025CKG1801	м 1.8КОНМ,	J,1/4W
R455	ERG2SJ222H	M 2.2KOHM, J, 2W	R522	ERJ8GCYJ471	м 4700НМ,	J,1/8W
R456	ERG2SJ332H	M 3.3KOHM, J, 2W	R523	EVND4AAOOB13	RGB V. HOLD	1KOHMB
R457	ERDS1TJ102	C 1KOHM, J,1/2W	∆ R530	ERJ8GCYJ103	M 10KOHM,	J,1/8W
R458	ERDS1TJ3R3	C 3.30HM, J,1/2W	R531	ERJ8GCYJ472	M 4.7KOHM,	J,1/8W
R459	ERDS1TJ223	C 22KOHM, J,1/2W	R532	ERJ8GCYJ103	м токонм,	J,1/8W
∆ R461	ERQ2CJ680	F 680HM, 2W	R533	ERG2ANJ152H	M 1.5KOHM,	J, 2W
			∆ R534	EVND4AA00B33	PROTECTOR AD	J.
R462	ERDS1FJ3R3	C 3.30HM, J,1/2W				зконмв
R463		C 3.30HM, J,1/2W		ERJ8GCYJ332	м з.зконм,	
R464		M 1KOHM, J, 1W	▲ R537		M 2.2KOHM,	
R465		M 2200HM, J, 1W	▲ R538		M 1.2KOHM,	
R466	ERD25FJ1RO	C 10HM, J,1/4W	∆ R539	ERD25FJ222	C 2.2KOHM,	J,1/4W
R467	ERG2SJ272H	M 2.7KOHM, J, 2W	1	ERJ8GCYJ472	м 4.7КОНМ,	
R468	ERD25FJ472	C 4.7KOHM, J,1/4W	∆ R541	,	м 10КОНМ,	, ,
R469		M 1000HM, J,1/8W	1	ERJ8GCYJ102	M 1KOHM,	
R470		M 2700HM, J,1/8W	1	ERJ8GCYJ682	м 6.8КОНМ,	
R481	ERJ8GCYJ333	м 33KOHM, J,1/8W	∆ R544	ERJ8GCYJ222	M 2.2KOHM,	J,1/8W
R482	ERJ8GCYJ101	M 1000HM, J,1/8W	∆ R545	ERJ8GCYJ102	м 1конм,	
R483	ERJ8GCYJ104	M 100KOHM, J,1/8W	R551		м ззконм,	
R484	ERJ8GCYJ103	M 10K0HM, J,1/8W	R552		С 3.3КОНМ,	
R485		M 10K0HM, J,1/8W	R553		M 1000HM,	
R486	ERD25FJ100	C 100HM, J,1/4W	R554	ERJ8GCYJ102	M 1KOHM,	J,1/8W
R487	ERJ8GCYJ563	M 56KOHM, J,1/8W	R557	ERJ8GCYJ104	С 100КОНМ,	-
R488	ERJ8GCYJ223	M 22KOHM, J,1/8W	II.	ERJ8GCYJ104	C 100KOHM,	
R489	ERJ8GCYJ473	M 47KOHM, J,1/8W	R559	ERJ8GCYJ683	м 68КОНМ,	
R490	ERJ8GCYJ104	M 100KOHM, J,1/8W	R560	ERJ8GCYJ271	M 2700HM,	J,1/8W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Descripti	on
R561	ERJ8GCYJ472	M 4.7KOHM, J,1/8W	R632	ERJ8GCYJ471	M 4700HM.	J,1/8W
R562	ERJ8GCYJ272	M 2.7KOHM, J,1/8W	R633	EVND4AAOOB23	DL. ADJ.	2KOHMB
R563	ERD25FJ100	C 100HM, J,1/4W	R634	ERJ8GCYJ104	м 100КОНМ,	J, 1/8W
R564	ERJ8GCYJ101	M 1000HM, J,1/8W	R635	ERJ8GCYJ104	м 100КОНМ,	J,1/8W
R567	ERJ8GCYJ123	M 12KOHM, J,1/8W	R636	ERJ8GCYJ823	м 82КОНМ,	J,1/8W
R568	EVND4AAOOB24	H, CENTERING 20KOHMB	R637	ERJ8GCYJ822	M 8.2KOHM,	J, 1/8W
	ERJ8GCYJ472	M 4.7KOHM, J.1/8W	R638		м з.зконм,	J, 1/8W
R577	ERJ8GCYJ153	M 15KOHM, J.1/8W	R639	ERJ8GCYJ561	M 5600HM,	J, 1/8W
R582	ERJ8GCYJ101	M 1000HM, J,1/8W	R641	ERJ8GCYJ102	M 1KOHM,	J,1/8W
R583	ERJ8GCYJ122	M 1.2KOHM, J,1/8W	R642	ERJ8GCYJ331	м ззоонм,	J,1/8W
R584	ERJ8GCYJ122	M 1.2KOHM, J,1/8W	R643	ERJ8GCYJ331	м ззоонм,	J,1/8W
R585	ERJ8GCYJ122	M 1.2KOHM, J,1/8W	R644	ERJ8GCYJ102		J, 1/8W
R586	ERJ8GCYJ122	M 1.2KOHM, J,1/8W	R645	ERJ8GCYJ331	м ззоонм,	J,1/8W
R588	EXBP84473J	R-NETWORK	R646	EVND4AAOOB53	R-Y GAIN	5KOHMB
R589	EXBP84473J	R-NETWORK	R647	ERJ8GCYJ222	M 2.2KOHM,	J,1/8W
R590	ERDS1TJ331	C 3300HM, J,1/2W	R648	ERJ8GCYJ221		
∆ R591	ERDS1TJ823	C 82KOHM, J,1/2W	R649			J,1/8W
R601	ERJ8GCYJ152	M 1.5KOHM, J,1/8W	R650			J,1/8W
R602	ERJ8GCYJ272	M 2.7KOHM, J,1/8W	R651	EVND4AAOOB23	SECAM DL. ADJ.	
R603	ERJ8GCYJ332	M 3.3KOHM, J,1/8W	R652	ERJ8GCYJ561	м 5600НМ.	J,1/8W
R604	ERJ8GCYJ682	M 6.8KOHM, J,1/8W	R653		м з.эконм,	J,1/8W
R605	ERJ8GCYJ332	M 3.3KOHM, J,1/8W	R654	ERJ8GCYJ102	M 1KOHM,	J,1/8W
R606	ERJ8GCYJ332	M 3.3KOHM, J,1/8W	R655	ERJ8GCYJ391	м зэоонм,	J,1/8W
R607	ERJ8GCYJ392	M 3.9KOHM, J,1/8W	R656	ERJ8GCYJ391	м зэоонм,	J, 1/8W
R608	ERJ8GCYJ102	M 1KOHM, J,1/8W	R657	ERJ8GCYJ391	м зэоонм,	J,1/8W
R609	ERJ8GCYJ182	M 1.8KOHM, J,1/8W				
R610	ERJ8GCYJ823	M 82KOHM, J, 1/8W	R658		M 2.2KOHM,	J,1/8W
R611	ERJ8GCYJ333	M 33KOHM, J,1/8W	R659		B-Y DL.	5KOHMB
	ERJ8GCZJ395	C 3.9MOHM, J,1/8W	R660		M 6800HM,	J,1/8W
	ERJ8GCYJ332	M 3.3KOHM, J,1/8W	R661		M 2.7KOHM,	J,1/8W
R614	ERJ8GCYJ471	M 4700HM, J,1/8W	R662	ERJ8GCYJ102	M 1KOHM,	J,1/8W
	ERJ8GCYJ102	M 1KOHM, J,1/8W	R663		1	J,1/8W
	ERJ8GCYJ183	C 18KOHM, J,1/8W	R664		м 100КОНМ,	J,1/8W
	ERJ8GCYJ104	C 100KOHM, J,1/8W	R665	1	м зэоонм,	J,1/8W
1	EVND4AAOOB14		R666	1	M 2200HM,	J, 1/8W
R620	ERJ8GCYJ221	M 2200HM, J,1/8W	R667	ERJ8GCYJ224	M 220KOHM,	J, 1/8W
			R671	i	M 10KDHM,	J, 1/8W
1	ERJ8GCYJ821	M 8200HM, J,1/8W	R672			J, 1/8W
1	ERJ8GCYJ392	M 3.9KOHM, J,1/8W	R673		M 100KOHM,	J, 1/8W
	ERJ8GCYJ332	M 3.3KOHM, J,1/8W	R674		· ·	J, 1/8W
	ERJ8GCYJ224	C 220KOHM, J,1/8W	R675			J, 1/8W
R627	ERJ8GCYJ102	M 1KOHM, J,1/8W	R676	ERJ8GCYJ123	M 12KOHM,	J,1/8W
	ERJ8GCYJ102	M 1KOHM, J,1/8W	11	ERDS1FJ100		J, 1/2W
	EVND4AAOOB14		11	ERJ8GCYJ273		J,1/8W
1	ERJ8GCYJ102	M 1KOHM, J,1/8W	11	ERJ8GCYJ103		J,1/8W
R631	ERDS1FJ100	C 100HM, J,1/2W	R680	ERJ8GCYJ103	M 10KOHM,	J,1/8W
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Ref. No.	Part No.	Descript	ion	Ref. No.	Part No.		Descript	ion
R681	ERJ8GCYJ103	M 10KOHM,	J,1/8W	R729	ERJ8GCYJ472	М	4.7KOHM,	J,1/8W
R682	ERJ8GCYJ101	M 1000HM,	J,1/8W	R730	ERD25FJ102	С	1KOHM,	J,1/4W
R683	ERJ8GCYJ393	м зэконм,	J,1/8W	R731	ERD25FJ120	С	120HM,	J,1/4W
R684	ERJ8GCYJ562	M 5.6KOHM,	J,1/8W	R732	ERJ8GCYJ123	M	12KOHM,	J,1/8W
R685	ERJ8GCYJ684	м 680КОНМ,	J,1/8W	R733	ERJ8GCYJ154	С	150KOHM,	J,1/8W
R686	ERJ8GCYJ472	M 4.7KOHM,	J,1/8W	R734	ERJ8GCYJ103	М	10KOHM,	J,1/8W
R687	ERJ8GCYJ222	M 2.2KOHM,	J, 1/8W	R735	ERJ8GCYJ123	М	12KOHM,	J, 1/8W
R688	ERJ8GCYJ472	м 4.7КОНМ,	J, 1/8W	R736	ERJ8GCYJ102	М	1KOHM,	J,1/8W
R689	ERJ8GCYJ562	м 5.6КОНМ,	J, 1/8W	R737	ERJ8GCYJ222	М	2.2KOHM,	J,1/8W
R690	ERJ8GCYJ682	м 6.8КОНМ,	J,1/8W	R738	ERJ8GCYJ821	М	8200HM,	J,1/8W
R691	ERJ8GCYJ102	M 1KOHM,	J,1/8W	R739	ERJ8GCYJ273	м	27KOHM,	J,1/8W
R692	ERJ8GCYJ103	M 10KOHM.	J,1/8W	R740	ERJ8GCYJ103	М	10KOHM.	J,1/8W
R693	ERJ8GCYJ823	M 82KOHM,	J,1/8W	R741	ERJ8GCYJ103	М	10KOHM,	J,1/8W
R694	ERJ8GCYJ104	M 100KOHM,	J,1/8W	R742	ERJ8GCYJ472	М	4.7KOHM,	J.1/8W
R695	ERJ8GCYJ104	M 100KOHM,	J,1/8W	R743	ERJ8GCYJ684	М	680КОНМ,	J,1/8W
R696	ERJ8GCYJ153	M 15KOHM,	J,1/8W	R744	ERJ8GCYJ682	м	6.8KOHM,	J,1/8W
R697	ERJ8GCYJ104	M 100KOHM.	J, 1/8W	R745	EVND4H00GB24			20КОНМВ
R698	ERUSGCYJ102	M 1KOHM,	J, 1/8W	R746	ERJ8GCYJ123	М	12KOHM,	J,1/8W
R701	ERJ8GCYJ102	M 1KOHM.	J, 1/8W	R753	ERJ8GCYJ333	М	ззконм,	J,1/8W
R702	ERJ8GCYJ332	м з.зконм,	J,1/8W	R755	ERJ8GCYJ472	М		J,1/8W
			L 4 /OW	DZEC	EDOSECKE 1202	B.A.	120KOHM,	F,1/4W
R704	ERJ8GCYJ333	м ззконм,		R756	ERO25CKF1203 ERO25CKF4702	M	47KOHM,	F,1/4W
R705	ERJ8GCYJ472	M 4.7KOHM,		R757	ERDS1TJ471	C	4700HM,	J,1/2W
R707	ERJ8GCYJ103	M 10KOHM,	J, 1/8W	R758	ERDS1TU471	C	4700HM,	J,1/2W
R708	ERJ8GCYJ103 ERJ8GCYJ102	M 10KOHM, M 1KOHM,	J,1/8W J,1/8W	R759 R760	ER025CKF2002	М	20KOHM,	F,1/4W
R709	ERUSGCTOTOZ	in incinit,	0,1/011	17.55				
R710	ERD25FJ100	C 100HM,	J,1/4W	R761	ER025CKF2002	M	20KOHM,	F,1/4W
R711	ERJ8GCYJ473	C 47KOHM,	J,1/8W	R762	ER025CKF6800	M	6800HM,	F 1/4W
R712	ERJ8GCYJ103	M 10KOHM,	J,1/8W	R763	ERO25CKF6800	М	6800HM,	F 1/4W
R713	ERJ8GCYJ331	M 3300HM,	J,1/8W	R764	ER025CKF2002	М	20KOHM,	F,1/4W
R714	ER025CKF2002	M 20KOHM,	F,1/4W	R765	ERD25FJ471	С	4700HM,	J,1/4W
R715	ER025CKF1203	M 120KOHM,		R766		1	3.3KOHM,	F,1/4W
R716	ERD25FJ100	C 100HM,	-	R767	1	M	120KOHM,	F,1/4W
R717	ER025CKF4702	M 47KOHM,		R768	1	М	27KOHM,	J,1/8W
R718	ERJ8GCYJ272	M 2.7KOHM,		R769		1	8.2KOHM,	J,1/8W
R719	ERJ8GCYJ272	M 2.7KOHM,	J,1/8W	R770	ERJ8GCYJ102	M	1KOHM,	J,1/8W
R720	ER025CKF2002	M 20KOHM,	F,1/4W	R771	ERD25FJ222	С	2.2KOHM,	J,1/4W
R721	ERD25FJ471	C 4700HM,	_	R772	ERDS1FJ222	С	2.2KOHM,	J,1/2W
R722		м з.зконм,	F,1/4W	R774	ERDS1FJ821	С	8200HM,	J,1/2W
R723		1	F 1/4W	R775	ERDS1FJ330	С	330HM,	J,1/2W
R724	i	1	F 1/4W	R776	ERJ8GCYJ101	M	1000HM,	J,1/8W
R725	ER025CKF1203	M 120KOHM.	F,1/4W	R777	ERJ8GCYJ334	М	ззоконм,	J,1/8W
R726		1		R778	1	м	1.5MOHM,	J.1/8W
R727		M 4.7KOHM,		R780	1	М	56KOHM,	J,1/8W
R728		C 4.7KOHM,		R781		М	56KOHM,	J,1/8W

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R782	ERJ8GCYJ223	M 22KOHM, J,1/8	R832	ERJ8GCYJ822	M 8.2KOHM, J,1/8W
R783	ERJ8GCYJ102	M 1KOHM, J,1/8	11 11	ERJ8GCYJ562	M 5.6KOHM, J.1/8W
R784	ERJ8GCYJ223	M 22KOHM, J,1/8	11	ERJ8GCYJ471	M 4700HM, J,1/8W
R785	ERDS1TJ102	C 1KOHM, J, 1/2		ERJ8GCYJ563	M 56KOHM, J,1/8W
	ERJ8GCYJ223	M 22KOHM, J, 1/8	11	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R787	EVND4AAOOB52	H. KEYSTONE WAVE	R837	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CORRECTION 5000HM		ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R788	EVND4H00GB24	H/L PIN. 20KDHM	11	ERJ8GCYJ272	M 2.7KOHM, J,1/8W
R789	ERJ8GCYJ223	M 22KOHM, J,1/8		ERJ8GCYJ472	M 4.7KOHM, J,1/8W
R790	ERJ8GCYJ103	M 10K0HM, J,1/8		ERJ8GCYJ332	M 3.3KOHM, J,1/8W
R791	EVND4AAOOB52	H. KEYSTONE WAVE	R842	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
		CORRECTION 5000HM		ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R792	ERJ8GCYJ223	M 22KOHM, J,1/8		ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R793	ERJ8GCYJ472	M 4.7KOHM, J,1/8		ERJ8GCYJ154	M 150KOHM, J,1/8W
R794	ERJ8GCYJ472	M 4.7KOHM, J.1/8			M 100KOHM, J,1/8W
R795	ERJ8GCYJ222	M 2.2KOHM, J,1/8	R847		M 68KOHM, J,1/8W
R796	ERJ8GCYJ103	M 10KOHM, J,1/8		ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R797	ERJ8GCYJ104	M 100KOHM, J,1/8	'∥ R849	ERJ8GCYJ274	M 270KOHM, J,1/8W
R798	ERJ8GCYJ682	M 6.8KOHM, J,1/8	R850	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
R799	ERJ8GCYJ562	M 5.6KOHM, J,1/8		ERJ8GCYJ683	M 68KOHM, J,1/8W
R800	ERJ8GCYJ104	M 100KOHM, J,1/8	R852	ERJ8GCYJ104	M 100KOHM, J,1/8W
R801	ERJ8GCYJ473	M 47KOHM, J,1/8	11 11000	ERJ8GCYJ154	M 150KOHM, J,1/8W
R802	ERJ8GCYJ222	M 2.2KOHM, J,1/8		ERJ8GCYJ222	M 2.2KOHM, J,1/8W
1	ERJ8GCYJ563	M 56KOHM, J,1/8	11	ERDS1FJ1RO	C 10HM, J,1/2W
1	ERJ8GCYJ103	M 10K0HM, J,1/8	11000	ERDS1FJ1R2	C 1.20HM, J,1/2W
R805	ERJ8GCYJ102	M 1KOHM, J,1/8	11 11002	ERDS1FJ471	C 4700HM, J,1/2W
1	ERJ8GCYJ822	M 8.2KOHM, J, 1/8	11/000	ERJ8GCYJ224	C 220KOHM, J,1/8W
R807	ERJ8GCYJ823	M 82KOHM, J,1/8	11 11000	ERJ8GCYJ154	C 150KOHM, J,1/8W
R808	ERJ8GCYJ103	M 10KOHM, J,1/8	11 11000	ERDS1FJ1R2	C 1.20HM, J,1/2W
1	ERJ8GCYJ682	M 6.8KOHM, J,1/8	11007		C 10HM, J,1/2W
R810	ERJ8GCYJ102	M 1KOHM, J,1/8	11000	ERJ8GCYJ103	M 10KOHM, J,1/8W
R811	ERJ8GCYJ274	M 270KOHM, J,1/8	. 11000	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
1	ERJ8GCYJ332	M 3.3KOHM, J,1/8	11 11070	EVND4H00RB24	B-H CONVERGENCE
1	ERJ8GCYJ392	M 3.9KOHM, J,1/8		5.0.5	20KOHMB
R814	ERJ8GCYJ104	M 100KOHM, J,1/8		EVND4H00RB24	B-H CONVERGENCE 20KOHMB
l .	ERJ8GCYJ822	M 8.2KOHM, J,1/8	11	ED 10007 1450	
	ERJ8GCYJ562	M 5.6KOHM, J,1/8	11	ERJ8GCYJ153	M 15KOHM, J,1/8W
1	ERJ8GCYJ471	M 4700HM, J,1/8	111	EVND4H00RB24	B-H CONVERGENCE
1	ERJ8GCYJ153	M 15KOHM, J,1/8	- 11	ERJ8GCYJ153	20KOHMB M 15KOHM, J,1/8W
	ERJ8GCYJ563	M 56KOHM, J,1/8	111		
i	ERJ8GCYJ272	M 2.7KOHM, J,1/8	111	ERJ8GCYJ273 EVND4H00RB24	M 27KOHM, J,1/8W B-H CONVERGENCE
	ERJ8GCYJ472	M 4.7KOHM, J,1/8	II.	EVND4HUUNB24	20KOHMB
	ERJ8GCYJ332	M 3.3KOHM, J,1/8	4.1	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
	ERJ8GCYJ272	M 2.7KOHM; J.1/8 M 4.7KOHM, J.1/8	· 11	EVND4H00RB24	B—H CONVERGENCE
1	ERJ8GCYJ472		11	EVND4HUUND24	20KOHMB
	ERJ8GCYJ332	M 3.3KOHM, J,1/8 M 10KOHM, J,1/8		ERJ8GCYJ682	M 6.8KOHM, J,1/8W
	ERJ8GCYJ103 ERJ8GCYJ104	M 100KOHM, J,1/8	11	EVND4H00RB24	B-H CONVERGENCE
	ERUSGCYU473	M 47KOHM, J,1/8	11	L VIADALIOUNDS4	20KOHMB
	ERUSGCYU222	M 2.2KOHM, J,1/8	11	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
i	ERU8GCYU392	M 3.9KOHM, J,1/8	11	EVND4H00RB24	B-H CONVERGENCE
	ERJ8GCYJ104	M 100KOHM, J,1/8	11		20КОНМВ
''03	LNUBGUTUTU4	W 100001111, 0,1/6			
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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R883	ERJ8GCYJ682	M 6.8KOHM, J,1/8W	R918	ERJ8GCYJ682	M 6.8KOHM, J,1/8W
		R-H CONVERGENCE	R919	EVND4H00BB24	B-V CONVERGENCE
		20KOHMB			20KOHMB
R885	EVND4H00RB24	R-H CONVERGENCE		ERJ8GCYJ682	M 6.8KOHM, J,1/8W B-V CONVERGENCE
		20KOHMB M 4.7KOHM, J,1/8W	R921	EVND4H00BB24	20KOHMB
	ERJ8GCYJ472 EVND4H00RB24	R-H CONVERGENCE	pggg	ERJ8GCYJ472	M 4.7KOHM, J.1/8W
R887	EVND4HOURD24	20KOHMB		EVND4H00BB24	B-V CONVERGENCE
R888	ERJ8GCYJ683	M 68KOHM, J,1/8W			20K0HMB
R889	ERJ8GCYJ562	M 5.6KOHM, J,1/8W	R924	EVND4H00BB24	B-H CONVERGENCE
R890	EVND4H00RB24	R-H CONVERGENCE			20KOHMB
		20KOHMB	R925		M 5.6KOHM, J,1/8W
1	ERJ8GCYJ103	M 10KOHM, J,1/8W	R926	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R892	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	0007	ERJ8GCYJ103	M 10KOHM, J,1/8W
R893	ERJ8GCYJ153	M 15KOHM, J,1/8W	R927		B-V CONVERGENCE
R894	EVND4H00RB24	R-H CONVERGENCE	1 1320	E V ND 41 1000 D24	20KDHMB
1034	E VIIID-IIIOUIIDE-I	20KOHMB	R929	ERJ8GCYJ153	M 15KOHM, J,1/8W
R895	ERJ8GCYJ562	M 5.6KOHM, J,1/8W			
R896	EVND4H00RB24	R-H CONVERGENCE	R930	EVND4H00BB24	B-H CONVERGENCE
		20KOHMB			20KOHMB
	ERJ8GCYJ472	M 4.7KOHM, J,1/8W	R931	ERJ8GCYJ562 EVND4H00BB24	M 5.6KOHM, J,1/8W
R898	EVND4H00RB24	R-H CONVERGENCE 20KOHMB	K932	EVND4HUUBB24	20KOHMB
DROG	ERJ8GCYJ153	M 15KOHM, J,1/8W	R933	ERJ8GCYJ683	M 68KOHM, J,1/8W
R900	EVND4H00RB24	R-H CONVERGENCE		ERJ8GCYJ472	M 4.7KOHM, J,1/8W
		20KOHMB	R935		B-H CONVERGENCE
R901	EVND4H00RB24	R-H CONVERGENCE			20KOHMB
		20KOHMB	11	ERJ8GCYJ153	M 15KOHM, J,1/8W
1	ERJ8GCYJ153	M 15KOHM, J,1/8W M 15KOHM, J,1/8W	R937	EVND4H00BB24	B-H CONVERGENCE 20KOHMB
R903	ERJ8GCYJ153 EVND4H00RB24	R-H CONVERGENCE	POSS	ERJ8GCYJ153	M 15KOHM, J, 1/8W
K904	EVIND4HOUND24	20KOHMB	II	EVND4H00BB24	B-H CONVERGENCE
R905	EVND4H00RB24	R-H CONVERGENCE			20K0HMB
		20КОНМВ	R940	ERJ8GCYJ153	M 15KOHM, J,1/8W
R906	ERJ8GCYJ562	M 5.6KOHM, J,1/8W	R941	EVND4H00BB24	B-H CONVERGENCE
R907	EVND4H00BB24	B-V CONVERGENCE			20K0HMB
		20KOHMB	11	ERJ8GCYJ153	M 15KOHM, J,1/8W
R908		M 15KOHM, J,1/8W	R943	EVND4H00BB24	B-H CONVERGENCE 20K0HMB
R909	EVND4H00BB24	B-V CONVERGENCE 20K0HMB	R944	EVND4H00GB24	H/L PIN. L
2010	ERJ8GCYJ153	M 15KOHM, J, 1/8W	K944	EVIND4H00GB24	20KOHMB
R910	EVND4H00BB24	B-V CONVERGENCE	R945	ERJ8GCYJ472	M 4.7KOHM, J,1/8W
211	EV110411005524	20KOHMB	11	ERJ8GCYJ223	M 22KOHM, J, 1/8W
R912	ERJ8GCYJ273	M 27KOHM, J,1/8W	R947	ERJ8GCYJ222	M 2.2KOHM, J,1/8W
R913	ł .	B-V CONVERGENCE	R948		M 15KOHM, J,1/8W
		20KOHMB	R949		M 15KOHM, J,1/8W
R914	1	M 6.8KOHM, J,1/8W	R950	1	M 1KOHM, J,1/8W
R915	EVND4H00BB24	B-V CONVERGENCE	R951		M 4.7KOHM, J,1/8W M 2.7KOHM, J,1/8W
0010	ERJ8GCYJ682	20KOHMB M 6.8KOHM, J,1/8W	R952 R953		M 47KOHM, J,1/8W
R916	EVND4H00BB24	B-V CONVERGENCE	R954		M 100KOHM, J,1/8W
731/	_ TID-TITOUDD2-1	20КОНМВ	R955	I .	T/B PIN CORRECTION
1			11		

R958 EVND4AAOOB52 T/B PIN CORRECTION SOOOHMB R960 ERUBGCYJ473 M 47KOHM, J.1/8W R961 ERDS5TJJ152 C 1.5KOHM, J.1/8W R962 ERUBGCYJ23 M 22KOHM, J.1/8W R1038 ERD25FJ271 C 2700HM, J.1/4W R1041 ERDS1TJ271 C 2700HM, J.1/2W R1041 ERDS1TJ271 C 2700HM, J.1/2W R1041 ERDS1TJ271 C 2700HM, J.1/2W R1042 ERDS1TJ271 C 2700HM, J.1/2W R1042 ERDS1TJ271 C 2700HM, J.1/2W R1043 ERDS1TJ271 C 2700HM, J.1/2W R1043 ERDS1TJ271 C 2700HM, J.1/2W R1044 ERDS1TJ271 C 2700HM, J.1/2W R1045 ERDS1TJ271 C 2700HM, J.1/4W R1045 ERDS1TJ271 C 2700HM,	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R958 EVND4AAOOB52 T/B PIN CORRECTION SOOCHMB R960 ERJBGCYJ473 M 47KOHM, J.1/8W R961 ERDS1TJ152 C 1.5KOHM, J.1/8W R1038 ERD25FJ271 C 270OHM, J.1/4W R1038 ERDS1TJ271 C 270OHM, J.1/2W R1041 ERDS1TJ271 C 270OHM, J.1/2W R1041 ERDS1TJ271 C 270OHM, J.1/2W R1042 ERDS1TJ271 C 270OHM, J.1/2W R1042 ERDS1TJ271 C 270OHM, J.1/2W R1043 ERDS1TJ271 C 270OHM, J.1/2W R1043 ERDS1TJ271 C 270OHM, J.1/2W R1044 ERDS1TJ271 C 270OHM, J.1/2W R1045 ERDS1TJ271 C 270OHM, J.1/4W R1045 ERDS1TJ271 C 270OHM,	R956	ERJ8GCYJ104	M 100KOHM, J,1/8W	R1035	ERDS1TJ271	C 2700HM, J,1/2W
R960 RRJBGCYJ473 M 47KOHM, J, 1/8W R1037 RRD25FJ271 C 27OOHM, J, 1/4W R1039 RRD25FJ271 C 27OOHM, J, 1/4W R1040 RRD25FJ271 C 27OOHM, J, 1/4W R1040 RRD25FJ271 C 27OOHM, J, 1/2W R1040 RRD25FJ271 C 27OOHM, J, 1/2W R1041 RRD21TJ271 C 27OOHM, J, 1/2W R1042 RRD25FJ271 C 27OOHM, J, 1/2W R1043 RRD25FJ271 C 27OOHM, J, 1/2W R1044 RRD25FJ271 C 27OOHM, J, 1/2W R1045 RRD25FJ271 C 27OOHM, J, 1/4W R1045 RRD25FJ271 C 27OOHM, J, 1/4W R1045 RRD25FJ271 C 27OOHM, J, 1/4W R1054 RRD25FJ271 C	1		•			
R961 ERDSTTJ152			5000HMB	R1037	ERD25FJ271	C 2700HM, J,1/4W
R992 ERJ8GCYJ103 M 10KOHM, J.1/8W R1041 ERDS5FJ271 C 2700HM, J.1/4V R1041 ERDS6CYJ103 M 10KOHM, J.1/8W R1041 ERDS1FJ271 C 2700HM, J.1/2W R1042 ERDS1FJ271 C 2700HM, J.1/2W R1042 ERDS1FJ271 C 2700HM, J.1/2W R1042 ERDS1FJ271 C 2700HM, J.1/2W R1043 ERDS1FJ271 C 2700HM, J.1/2W R1043 ERDS1FJ271 C 2700HM, J.1/2W R1043 ERDS1FJ271 C 2700HM, J.1/2W R1045 ERDS1FJ271 C 2700HM, J.1/4W R1054	R960	ERJ8GCYJ473	M 47KOHM, J,1/8W	R1038	ERD25FJ271	C 2700HM, J,1/4W
R970 RNJBGCYJ102 M 10KOHM J 1/8 W R1041 ERDS1TJ271 C 2700HM J 1/2 W R1042 ERDS1TJ271 C 2700HM J 1/2 W R1043 ERDS1TJ271 C 2700HM J 1/2 W R1045 ERDS1TJ271 C 2700HM J 1/2 W R105 ERDS1TJ271 C 2700HM J 1/2 W R1045 ERDS1TJ271 C	R961	ERDS1TJ152	C 1.5KOHM, J,1/2W	R1039	ERD25FJ271	C 2700HM, J,1/4W
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R984 ERJ8GCYJ562 M 5.6KOHM, J,1/8W M 1KOHM, J,1/8W R1065 ERD25FJ123 C 22KOHM, J,1/4W R1062 ERD25FJ123 C 12KOHM, J,1/4W R1064 ERD25FJ123 C 27COHM, J,1/4W R1064 ERD25FJ123 C 27COHM, J,1/4W R1065 ERD25FJ123 C 27COHM, J,1/4W R1064 ERD25FJ123 C 27COHM, J,1/4W R1065 ERD25FJ1271 C 27COHM, J,1/4W R1064 ERD25FJ1271 C 27COHM, J,1/4W R1065 ERD25FJ1271 C 27COHM, J,1/4W R1065 ERD25FJ1271 C 27COHM, J,1/4W R1066 ERD25FJ1271 C 27COHM, J,1/4W R1105 ERJ8GCYJ101 M 10COHM, J,1/8W R1106 ERJ8GCYJ103 M 15KOHM, J,1/8W R1106 ERJ	1			1 .		
R985 ERJ8GCYJ102 R986 EVND4AAOOB24 R987 ERJ8GCYJ102 R988 ERJ8GCYJ102 R988 ERJ8GCYJ103 R989 ERJ8GCYJ103 R999 ERJ8GCYJ153 R990 ERJ8GCYJ153 R991 ERJ8GCYJ153 R991 ERJ8GCYJ152 R993 EVND4AAOOB24 R994 ERJ8GCYJ152 R995 ERJ8GCYJ162 R996 ERJ8GCYJ162 R996 ERJ8GCYJ104 R997 ERJ8GCYJ104 R997 ERJ8GCYJ104 R997 ERJ8GCYJ105 R998 ERJ8GCYJ104 R999 ERJ8GCYJ104 R997 ERJ8GCYJ104 R997 ERJ8GCYJ104 R997 ERJ8GCYJ104 R997 ERJ8GCYJ104 R997 ERJ8GCYJ104 R998 ERJ8GCYJ104 R997 ERJ8GCYJ104 R997 ERJ8GCYJ104 R998 ERJ8GCYJ104 R997 ERJ8GCYJ104 R998 ERJ8GCYJ104 R999 ERJ8GCYJ104 R990 ERJ8GCYJ104 R997 ERJ8GCYJ104 R998 ERJ8GCYJ104 R998 ERJ8GCYJ104 R999 ERJ8GCYJ104 R1001 ERDS1FJ331 C 3300HM, J,1/8W R1105 ERJ8GCYJ153 M 18KOHM, J,1/8W R1106 ERJ8GCYJ153 M 18KOHM, J,1/8W R1107 ERJ8GCYJ153 M 18KOHM, J,1/8W R1109 ERJ8GCYJ153 M 15KOHM, J,1/8W R1109 ERJ8GCYJ102 M 1KOHM, J,1/8W R1101 ERJ8GCYJ102 M 1KOHM, J,1/8W R1103 ERJ8GCYJ103 M 18KOHM, J,1/8W R1109 ERJ8GCYJ153 M 15KOHM, J,1/8W R1109 ERJ8GCYJ153 M 15KOHM, J,1/8W R1109 ERJ8GCYJ103 M 15KOHM, J,1/8W R1111 ERJ8GCYJ103 M 15KOHM,						
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R993 EVND4AAOOB24 SIDE PIN. COMPENSATI ON 20KOHMB R1102 ERJ8GCYJ161 C 1000HM, J, 1/8W R1102 ERJ8GCYJ162 M 5.6KOHM, J, 1/8W R1103 EVN64AAOOB24 SUBCONTRAST20KOHME R1104 ERJ8GCYJ101 M 1000HM, J, 1/8W R1105 ERJ8GCYJ183 M 18KOHM, J, 1/8W R1106 ERJ8GCYJ183 M 18KOHM, J, 1/8W R1106 ERJ8GCYJ183 M 18KOHM, J, 1/8W R1107 EVN64AA00B14 SUB BRIGHT 10KOHME R11001 ERDS1FJ331 C 3300HM, J, 1/2W R1108 ERJ8GCYJ154 C 150KOHM, J, 1/8W R1109 ERJ8GCYJ153 M 15KOHM, J, 1/8W R11002 ERD25FJ560 C 560HM, J, 1/4W R1110 ERJ8GCYJ102 M 1KOHM, J, 1/8W R11004 ERD25FJ103 C 16KOHM, J, 1/4W R1111 ERJ8GCYJ102 M 1KOHM, J, 1/8W R1105 ERD25FJ223 C 22KOHM, J, 1/4W R1111 ERJ8GCYJ102 M 1KOHM, J, 1/8W R1106 ERD25FJ123 C 39KOHM, J, 1/4W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10HM, J, 1/8W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10HM, J, 1/8W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10HM, J, 1/8W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10OHM, J, 1/8W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10OHM, J, 1/8W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10OHM, J, 1/8W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10OHM, J, 1/2W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10OHM, J, 1/2W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10OHM, J, 1/2W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10OHM, J, 1/2W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10OHM, J, 1/2W R1111 ERJ8GCYJ103 M 10KOHM, J, 1/8W R1100 ERDS1FJ100 C 10OHM, J, 1/8W R1110 ERJ8GCYJ103 M 22KOHM, J, 1/8W R1101 ERJ8GCYJ103 M 22KOHM, J, 1/8W R1100 E				1 1		1 ' ' ' 1
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R994 ERJ8GCYJ562 M 5.6KOHM, J,1/8W R995 ERJ8GCYJ182 M 1.8KOHM, J,1/8W R996 ERJ8GCYJ104 C 100KOHM, J,1/8W R997 ERJ8GCYJ562 M 5.6KOHM, J,1/8W R998 ERJ8GCYJ562 M 5.6KOHM, J,1/8W R998 ERJ8GCYJ473 C 47KOHM, J,1/8W R1106 ERJ8GCYJ183 M 18KOHM, J,1/8W R1999 ERJ8GCYJ332 M 3.3KOHM, J,1/8W R1108 ERJ8GCYJ154 C 150KOHM, J,1/8W R1001 ERDS1FJ331 C 330OHM, J,1/2W R1109 ERJ8GCYJ153 M 15KOHM, J,1/8W R1002 ERD25FJ560 C 560HM, J,1/4W R1110 ERJ8GCYJ102 M 1KOHM, J,1/8W R1004 ERD25FJ102 C 1KOHM, J,1/4W R1111 ERJ8GCYJ102 M 1KOHM, J,1/8W R1005 ERD25FJ223 C 22KOHM, J,1/4W R1112 ERDS1FJ1R0 C 10HM, J,1/2W R1006 ERD25FJ393 C 39KOHM, J,1/4W R1114 ERJ8GCYJ103 M 10KOHM, J,1/8W R1008 ERD25FJ123 C 12KOHM, J,1/4W R1115 ERJ8GCYJ103 M 10KOHM, J,1/8W R1009 ERDS1TJ681 C 680OHM, J,1/2W R1116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1009 ERDS1FJ100 C 10OHM, J,1/2W R1116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1009 ERDS1FJ100 C 10OHM, J,1/2W R1116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 10OHM, J,1/2W R1116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1009 ERDS1FJ100 C 10OHM, J,1/2W R1116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 10OHM, J,1/2W R1116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 10OHM, J,1/2W R1116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 10OHM, J,1/2W R1116 ERJ8GCYJ223 M 22KOHM, J,1/8W R1011 ERDS1FJ220 C 22OHM, J,1/2W R1117 ERJ8GCYJ223 M 22KOHM, J,1/8W	K333	E VINDANAOOD24		i 1		
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R996 ERJ8GCYJ104 C 100KOHM, Ü,1/8W R997 ERJ8GCYJ562 M 5.6KOHM, J,1/8W R998 ERJ8GCYJ473 C 47KOHM, J,1/8W R1107 EVN64AA00B14 SUB BRIGHT 10KOHME R1001 ERDS1FJ331 C 330OHM, J,1/2W R1109 ERJ8GCYJ153 M 15KOHM, J,1/8W R1002 ERD25FJ560 C 56OHM, J,1/4W R1110 ERJ8GCYJ102 M 1KOHM, J,1/8W R1104 ERD25FJ103 C 1KOHM, J,1/4W R1111 ERJ8GCYJ102 M 1KOHM, J,1/8W R1005 ERD25FJ23 C 22KOHM, J,1/4W R1112 ERDS1FJ1R0 C 10HM, J,1/2W R1109 ERJ8GCYJ103 M 15KOHM, J,1/8W R1105 ERJ8GCYJ102 M 1KOHM, J,1/8W R1105 ERJ8GCYJ102 M 1KOHM, J,1/8W R11112 ERDS1FJ1R0 C 10HM, J,1/2W R11113 ERJ8GCYJ103 M 3.3KOHM, J,1/8W R1106 ERD25FJ393 C 39KOHM, J,1/4W R11114 ERJ8GCYJ103 M 3.3KOHM, J,1/8W R1109 ERDS1FJ1681 C 680OHM, J,1/2W R11115 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 10OHM, J,1/2W R11116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 22OHM, J,1/2W R11116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 22OHM, J,1/2W R11116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 22OHM, J,1/2W R11116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 22OHM, J,1/2W R11116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 22OHM, J,1/2W R11116 ERJ8GCYJ103 M 22KOHM, J,1/8W R1011 ERDS1FJ220 C 22OHM, J,1/2W R1117 ERJ8GCYJ223 M 22KOHM, J,1/8W						
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R1001 ERDS1FJ331				4 1		
R1002 ERD25FJ560				1 1		
R1003 ERD25FJ102 C 1KOHM, J,1/4W R1111 ERJ8GCYJ102 M 1KOHM, J,1/8W R1004 ERD25FJ103 C 10KOHM, J,1/4W R1112 ERDS1FJ1R0 C 10HM, J,1/2W R1005 ERD25FJ223 C 22KOHM, J,1/4W R1113 ERJ8GCYJ332 M 3.3KOHM, J,1/8W R1008 ERD25FJ123 C 39KOHM, J,1/4W R1114 ERJ8GCYJ103 M 10KOHM, J,1/8W R1009 ERDS1TJ681 C 680OHM, J,1/2W R1115 ERJ8GCYJ103 M 10KOHM, J,1/8W R1010 ERDS1FJ100 C 10OHM, J,1/2W R1116 ERJ8GCYJ103 M 10KOHM, J,1/8W R1011 ERDS1FJ220 C 22OHM, J,1/2W R1117 ERJ8GCYJ223 M 22KOHM, J,1/8W				i I		
R1004 ERD25FJ103	R1003	ERD25FJ102	C 1KOHM, J,1/4W			
R1005 ERD25FJ223	R1004	ERD25FJ103	C 10KOHM, J,1/4W			1
R1008 ERD25FJ123	R1005	ERD25FJ223	C 22KOHM, J,1/4W	R1113	ERJ8GCYJ332	
R1008 ERD25FJ123	R1006	ERD25FJ393	C 39KOHM, J,1/4W	R1114	ERJ8GCYJ103	M 10K0HM, J,1/8W
R1010 ERDS1FJ100 C 100HM, J,1/2W R1117 ERJ8GCYJ223 M 22KOHM, J,1/8W	R1008	ERD25FJ123	C 12KOHM, J,1/4W	R1115	ERJ8GCYJ103	_
R1011 ERDS1FJ220 C 220HM, J,1/2W R1117 ERJ8GCYJ223 M 22KOHM, J,1/8W	R1009	ERDS1TJ681	C 6800HM, J,1/2W	R1116	ERJ8GCYJ103	
	R1010	ERDS1FJ100	C 100HM, J,1/2W			
DAGOO EDDOEE 1004 TO COOKDIM THE ALAN BALLO ED 1000V 1500 THE CHOICE THE	R1011	ERDS1FJ220	C 220HM, J,1/2W	R1117	ERJ8GCYJ223	M 22KOHM, J,1/8W
R1020 ERD25FJ224 C 220KOHM, J,1/4W R1118 ERJ8GCYJ562 M 5.6KOHM, J,1/8W	R1020	ERD25FJ224	C 220KOHM, J,1/4W	R1118	ERJ8GCYJ562	M 5.6KOHM, J,1/8W
	R1021	ERD25FJ102		R1119	ERJ8GCYJ561	M 5600HM, J,1/8W
						сн. зконмв
				R1121	ERJ8GCYJ223	M 22KOHM, J,1/8W
R1029 ERD25FJ271 C 2700HM, J,1/4W	1					
				1 1		M 5.6KOHM, J,1/8W
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	1					
	1 1		l	R1125	ERJ8GCYJ182	M 1.8KOHM, J,1/8W
R1034 ERDS1TJ271 C 2700HM, J,1/2W	R1034	ERDS1TJ271	C 2700HM, J,1/2W			

Ref. No.	Part No.	Description		Ref. No.	Part No.		ion	
R1126	ERJ8GCYJ222	M 2.2KOHM,	J,1/8W	R1178	ERDS1FJ820	С	820HM,	J,1/2W
R1127	ERJ8GCYJ103	M 10KOHM.	J, 1/8W	R1179	ERJ8GCYJ332	М	3.3KOHM,	J, 1/8W
R1128	ERJ8GCYJ562	M 5.6KOHM,	J, 1/8W	R1180	ERJ8GCYJ104	м	100KOHM.	J, 1/8W
R1129	ERU8GCYU153	M 15KOHM,	J, 1/8W	R1181	ERJ8GCYJ562	М	5.6KOHM.	J, 1/8W
R1130	ERU8GCYU153	M 1.5KOHM,	J,1/8W	R1182	ERJ8GCYJ272	M	2.7KOHM.	J,1/8W
KIISO	EROSGCTOTSZ	1.500	0, 1, 0	102	2.1000010272		2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
R1131	ERJ8GCYJ222	М 2.2КОНМ,	J,1/8W	R.1183	ERJ8GCYJ393	М	зэконм,	J,1/8W
R1132	ERJ8GCYJ272	M 2.7KOHM,	J,1/8W	R1184	ERJ8GCYJ202	М	2KOHM,	J,1/8W
R1133	ERJ8GCYJ223	M 22KOHM,	J,1/8W	R1185	ERJ8GCYJ223	M	22KOHM,	J, 1/8W
R1134	ERJ8GCYJ562	M 5.6KOHM,	J,1/8W	11	ERJ8GCYJ272	M	2.7KOHM,	J, 1/8W
R1135	ERJ8GCYJ103	M 10KOHM,	J,1/8W	R1187	ERJ8GCYJ472	M	4.7KOHM,	J,1/8W
R1136	ERJ8GCYJ273	M 27KOHM,	J,1/8W	R1188	ERJ8GCYJ391	М	3900HM,	J,1/8W
R1137	ERDS1FJ221	C 2200HM,	J,1/2W	R1189	ERJ8GCYJ223	M	22KOHM,	J,1/8W
R1138	ERJ8GCYJ182	M 1.8KOHM,	J,1/8W	R1190	ERJ8GCYJ103	М	10KOHM,	J,1/8Ŵ
R1139	ERJ8GCYJ103	M 10KOHM,	J,1/8W	R1191	ERJ8GCYJ223	M	22KOHM,	J,1/8W
R1140	ERJ8GCYJ103	м 10КОНМ,	J,1/8W	R1192	ERJ8GCYJ562	М	5.6KOHM,	J,1/8W
R1141	EVN64AAOOB53	CH, BRIGHT	5KOHMB	R1193	ERJ8GCYJ684	М	680KOHM,	J,1/8W
R1142	ERJ8GCYJ223	M 22KOHM,		R1194		1	680KOHM,	J,1/8W
R1143	ERJ8GCYJ123	M 12KOHM,	J, 1/8W	R1195	1	1	680KOHM,	J, 1/8W
R1144	ERDS1FJ100	C 100HM,	J, 1/2W	R1196		M	1KOHM,	J,1/8W
R1145	ERJ8GCYJ331	м ззоонм,	J,1/8W	R1197	ERJ8GCYJ474	1	470KOHM,	J,1/8W
	EDD 6 4 5 14 00	4.00	J.1/2W	R1198	ERJ8GCYJ471	M	4700HM,	J,1/8W
R1146	ERDS1FJ100	C 100HM,	J, 1/2W	R1199	1	C	560KOHM,	J, 1/8W
R1147	ERDS1FJ100	C 100HM,	J, 1/8W	R1199	1	C	100HM,	J, 1/4W
R1148	ERJ8GCYJ331	M 3300HM,	J, 1/8W	R1200	ERD25FJ103	C	10KOHM,	J, 1/4W
R1149	ERJ8GCYJ123	M 12KOHM, M 12KOHM,		R1201	ERD25TJ393	C	39KOHM,	J, 1/4W
R1151	ERJ8GCYJ123	IN IZRUHNI,	U, 1/8W	K1202	ERD2510353		3380000	0, 1/ 411
R1153	ERJ8GCYJ123	M 12KOHM,	J,1/8W	R1203	ERD25FJ100	C	100HM,	J,1/4W
R1156	ERJ8GCYJ153	м 15КОНМ,	J,1/8W	R1204	ERD25TJ182	С	1.8KOHM,	J,1/4W
R1157	ERJ8GCYJ472	M 4.7KOHM,	J.1/8W	R1205	ERD25TJ330	C	330HM,	J, 1/4W
R1159	ERJ8GCYJ472	M 4.7KOHM,	J,1/8W	R1206	ERD25TJ471	C	4700HM,	J,1/4W
R1160	ERJ8GCYJ392	м з.эконм,	J,1/8W	R1207	ERD25TJ102	C	1KOHM,	J,1/4W
D1161	ERU8GCYU103	M 10KOHM,	J.1/8W	R1208	ERD25TJ471	c	4700HM,	J.1/4W
R1162	1		J, 1/8W	II .	ERD25TJ102	C		J, 1/4W
R1163			J,1/8W	11	ERD25TJ181	C	1800HM.	
R1164			J, 1/8W	11	ERD25TJ104	C	100KOHM.	
R1166			J, 1/8W	R1212	1	C	10KOHM,	
R1167		M 100KOHM,		11212		ľ	10.001,	0,1,11
R1168	ERJ8GCYJ101	1	J, 1/8W	R1213	ERD25TJ474	c	470KOHM,	J. 1/4W
R1169	i e		J, 1/8W	R1214		C	22KOHM,	
R1170	ERJ8GCYJ101	M 1000HM,		R1215		C	-	J, 1/4W
R1171	ERJ8GCYJ223	1	J,1/8W	11	ERD25TJ392	C	3.9KOHM,	
R1172	1	M 10KOHM,		11	ERD25FJ223	C	22KOHM,	
R1173		M 6.2KOHM,					22.101111	- , . , . , . , . , . , . , . , . , . ,
R1174		M 10KOHM,		R1218	ERD25FJ223	C	22KOHM,	J, 1/4W
R1175		M 10KOHM,		R1219	1	C	2.2KOHM,	
	ERJ8GCYJ183	1	J,1/8W	R1220		C	1.8KOHM,	
1	ERJ8GCYJ331		J,1/8W	R1221		C		J.1/4W
		<u> </u>	-		1			

Ref. No.	Part No.	Descrip	tion	Ref. No.	Part No.	Descript	ion
R1222	ERD25TJ102	C 1KOHM,	J,1/4W	R1266	ERD25TJ471	C 4700HM,	J,1/4W
1	ERD25TJ223	C 22KOHM,			ERD25TJ101	C 1000HM.	
	ERD25TU223	C 5.6KOHM,		1	ERD25TJ101	C 1000HM,	
	ERD25TJ471	C 4700HM,			ERD25TJ330	C 330HM,	
	ERD2510471	C 1KOHM,			ERJ8GCYJ153	M 15KOHM,	
K1226	ER02510102	C INOTH,	U, 1/4W	K1290	ERUSGCTUTSS	M ISKUHM,	0,178W
	ERD25TJ123	С 12КОНМ,			ERJ8GCYJ103	M 10KDHM,	
	ERD25TJ102	C 1KOHM,			ERJ8GCYJ102	M 1KOHM,	J, 1/8W
	ERD25TJ104	C 100KOHM,		1	ERJ8GCYJ223	M 22KOHM,	J,1/8W
1	ERD25TJ272	C 2.7KOHM,			ERJ8GCYJ223	M 22KOHM,	J, 1/8W
R1231	ERD25TJ272	С 2.7КОНМ,	J,1/4W	R1296	ERJ8GCYJ223	M 22KOHM,	
				R1297	ERJ8GCYJ563	м 56КОНМ,	J, 1/8W
1	ERD25TJ102	C 1KOHM,		1 .	ERJ8GCYJ471	M 4700HM,	J,1/8W
	ERD25TJ561	C 5600HM,	, ,	1	ERF2AK1R2	W 1.20HM,	*
	ERD25TJ472	C 4.7KOHM,			ERDS1FJ392	С 3.9КОНМ,	J, 1/2W
	ERD25TJ272	C 2.7KOHM,			ERDS1FJ101	C 1000HM,	J, 1/2W
R1236	ERD25TJ102	C 1KOHM,	J,1/4W	R1404	ERD25FJ101	С 1000НМ,	J,1/4W
R1237	ERD25TJ104	С 100КОНМ,			ERD25FJ681	C 6800HM,	J,1/4W
R1238	ERD25TJ473	C 47KOHM,	J,1/4W	R1407	ERD25FJ271	C 2700HM,	J, 1/4W
R1239	ERD25TJ222	C 2.2KOHM,	J,1/4W				
R1240	ERD25TJ122	C 1.2KOHM,	J,1/4W	∆ R1409	ERDS1TJ102	C 1KOHM,	J,1/2W
R1241	ERD25TJ102	C 1KOHM,	J,1/4W	∆ R1410	ERG2ANJ182H	M 1.8KOHM,	J, 2W
R1242	ERD25FJ333	с ззконм,	J,1/4W	∆ R1411	ERD25TJ102	C 1KOHM,	J,1/4W
1	ERD25TJ334	с ззоконм,		∆ R1412	ERG1ANJ682H	M 6.8KOHM,	J, 1W
1	ERD25FJ222	C 2.2KOHM,		R1413	ERG3SJ332H	м з.зконм,	J. 3W
1	ERD25TJ683	C 68KOHM,	J,1/4W	R1415	ERX12SJR47P	M 0.470HM,	J, 1/2W
	ERD25TJ473	С 47КОНМ,		R1416	ERD25TJ332	с з.зконм,	J,1/4W
R1247	ERD25TJ102	C 1KOHM,	J.1/4W	∆ R1417	ERD25FJ471	C 4700HM,	J,1/4W
1	ERD25TJ272	C 2.7KOHM,	J,1/4W	∆ R1418	ER025CKF8202	M 82KOHM,	F, 1/4W
	ERD25TJ393	С 39КОНМ,	J, 1/4W	∆ R1419	EVN38CAOOB53	HV ADJ.	5KOHMB
1	ERD25TJ473	C 47KOHM,	J, 1/4W	 ∆R1420	ER025CKF8061	M8.06KOHM,	F, 1/4W
_		С 27КОНМ,			ERD25FJ471	C 4700HM,	
D1252	ERD25FJ333	с ззконм,	.1 1/4W	D1422	ERDS1TJ393	С 39КОНМ,	J 1/2W
1	ERD25TJ333	C 33KOHM,		1	ER025CKF7872	M78.7KOHM,	
1	ERD25FJ101	C 1000HM,	, ,	1	ERD25TJ223	C 22KOHM.	
	ERD25TJ102		J, 1/4W		ERD25TJ272	C 2.7KOHM,	
	ERD25TJ101		J, 1/4W		ER025CKF1001		F, 1/4W
K1256	ERD2510101	00011111,	0,1/4#		ERDS1FJ221	C 2200HM.	
R1257	ERD25TJ102	C 1KOHM,	J,1/4W	R1431	ERD25TJ272	С 2.7КОНМ,	J,1/4W
1	ERD25TJ473	C 47KOHM,	, ,	R1432	ERG1ANJ823H	M 82KOHM,	
	ERD25TJ472	С 4.7КОНМ,			ER050CKG8203	М 820КОНМ,	
	ERD25FJ473	C 47KOHM,		R1435	ERD25TJ182	С 1.8КОНМ,	J, 1/4W
	ERD25TJ472	С 4:7КОНМ,		R1436	ERD25TJ101	С 100ОНМ,	J, 1/4W
				R1501		M 82KOHM,	
5	ERD25TJ103		J,1/4W		ER025CKG1202	M 1.2KOHM,	
	ERD25FJ103	C 10KOHM,			ERG1ANJ682H	м 6.8КОНМ,	
	ERD25TJ681	C 6800HM,	· · · · · ·	1	ERG1ANJ682H	M 6.8KOHM,	
R1265	ERD25TJ471	C 4700HM,	J,1/4W	R1505	ERD25TJ563	С 56КОНМ,	J,1/4W

Ref. No.	Part No.	Descrip	tion	Ref. No.	Part No.		Descript	ion
D.1500	EDDOET ICOA	C COOHM	J,1/4W	P1603	ERD25TJ104	C	100KOHM,	J.1/4W
		C 6800HM,			ERD25TJ472		4.7KOHM,	
-	ERD25TJ681	C 6800HM,			ERD2510472 ERD25TJ472		4.7KOHM.	
	ERD25TJ153	C 15KOHM,		1			•	20KOHMB
- 1	ERD25TJ181	C 1800HM,	_		EVN64AAOOB24			_
R1510	ERD\$1FJ681	C 6800HM,	J,1/2W	R1607	ERD25TJ103	С	10KOHM,	U, 1/4W
R1513	ERD25TJ102		J,1/4W	II .	ERD25TJ121	С	1200HM,	
R1514	ER025CKG8202	м 82КОНМ,		11	ERD25TJ102	С	1KOHM,	
R1515	ER025CKG1202	М 1.2КОНМ,	G, 1/4W	11	ERD25TJ471	С	4700HM,	
R1516	ERG1ANJ682H	М 6.8КОНМ,	J, 1W	11	ERD25TJ101	С	1000HM,	
R1517	ERG1ANJ682H	м 6.8КОНМ,	J, 1W	R1612	ERD25TJ105	С	1MOHM,	J,1/4W
R1518	ERD25FJ563	C 56KOHM,	J,1/4W	R1613	ERD25TJ105	С	1MOHM,	
R1519	ERD25TJ681	C 6800HM.	J,1/4W	R1614	ERD25TJ103	С	10KOHM,	J.1/4W
R1520	ERD25TJ681	C 6800HM,		R1615	ERG2ANJ823H	М	82KOHM,	J, 2W
R1522	ERD25TJ153	C 15KOHM,			ERG2ANJ823H	М	82KOHM,	J, 2W
R1523	ERD25TJ181	C 1800HM,	* '.	R1701		R.	DRIVE	1000HMB
11.020	21(02010101			R1702		С	560HM,	J,1/4W
R1524	ERDS1FJ681	C 6800HM.	J,1/2W	11	ERD25TJ390	C	390HM,	J, 1/4W
R1525	ERD25FJ102		J.1/4W	R1704		С	4.7KOHM,	J, 1/4W
R1526	ERDS1FJ103	C 10KOHM,		R1706	l .	М	7.5KOHM,	J, 5W
R1528	ERD25TJ223	C 22KOHM,		R1707		С	15KOHM,	J, 1/2W
R1529	ERD25TJ272	C 2.7KOHM,		R1710	1	М	7.5KOHM,	J, 5W
KIJZJ	LRDZSTOZIZ	2.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0, ,,	R1712		С	1500HM,	J, 1/2W
R1530	ERD25TJ103	C 10KOHM,	J.1/4W	R1713		С	2200HM,	J, 1/4W
R1531	ERD25FJ223	C 22KOHM,		R1714		М	1.80HM,	J, 1W
R1532	ERD25TJ272	C 2.7KOHM,	•	R1715	ERDS1TJ104	С	100KOHM,	J, 1/2W
R1533	ERD25TJ103	C 10KOHM,		R1716	ERD25TJ334	С	330KOHM,	J, 1/2W
R1534	ERD25TJ272	C 2.7KOHM,		R1801	EVN64AAOOB12	G	DRIVE	1000HME
K1554	LNDZJIOZIZ	2.7101111,	0,17	R1802	ERD25TJ270	C	27OHM,	
R1535	ERD25TJ392	с з. эконм,	J. 1/4W	R1803		C	390HM,	
R1536	EVN38CA00B24	RGB H. SIZE	20KOHMB	R1804	l .	С	4.7KOHM,	
R1538	ERD25FJ473	C 47KOHM,		R1806	1		7.5KOHM,	
R1539	ERD25FJ272	C 2.7KOHM,		R1807	ERDS1TJ153	С	15KOHM,	
1		C 3.9KOHM,		11	ERG5SJ752H	•	7.5KOHM,	
R1540	ERD25TJ392	C 3. 5KOI IIII,	0,1/4	11	ERDS1TJ151	С		
D1E44	EVALOROA OOROA	VIDEO H. SIZE	SOKUHMB	11	ERD25FJ221	С	-	
	EVN38CAOOB24		J,1/2W	14	ERX1ANJ1R8H	М	1	
	ERDS1FJ103	1	J, 2W	R1815	ERDS1TJ104	С		
•	ERG2ANJ220H		J, 1/4W	R1816	ERD25TJ334	C	330KOHM,	-
	ERD25FJ681		J, 1/2W	11	EVN64AAOOB12	1	DRIVE	1000HME
R1552	ERDS1FJ271	C 2700HM,	U, 1/2W	11	ERD35FJ270	C		
R1553	ERG3SJ332H	м з.зконм,	J. 3W	R1903	ERD25TJ390	С	390HM,	J,1/4V
		M 1.8KOHM,		11	ERD25TJ472	С	4.7KOHM,	J,1/4V
1		M 0.470HM,	•	!!	ERG5SJ752H		7.5KOHM,	
R1557	ERG2ANJ391H	1	J, 2W	11	ERDS1TJ153	C	15KOHM,	
R1558	ERD25TJ473	1	J,1/4W		ERG5SJ752H	3	7.5KOHM,	
K1330	ER02310473	1777071111	· · · · · · · · · · · · · · · · · · ·	R1912		С	1500HM,	
D1550	ERD25FJ562	С 5.6КОНМ,	J. 1/4W	R1913		С		
	ERF2AK1R2		K, 2W	R1914		М		
			J, 1/4W	R1915	ERDS1TJ104	C		
R1601	ERD25TJ153 ERD25TJ473	l control of the cont	J,1/4W	R1916	ERDS25TJ334	C	330KOHM,	
R1602	LNU2310473	7/10/10/	O, 1/ 411	1		Ľ		-, ,,,,,

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
			2200		
R3001	ERO25CKF1502	M 15KOHM, F,1/4W COLOR 100KOHMB	R7030	1	C 150KOHM, J,1/8W
R3002	EVJFLAEA4B15		R7031	ERJ8GCYJ393	C 39KOHM, J,1/8W
R3003	ERD25FJ222 ERO25CKF1102	C 2.2KOHM, J,1/4W M 11KOHM, F, 1/4W	R7032 R7033		M 2.2KOHM, J,1/8W
R3004 R3005	ERD25FJ392	M 11KOHM, F, 1/4W C 3.9KOHM, J,1/4W	R7033	1	M 1KOHM, J,1/8W
R3006	EVJFLAEA4B14	TINT 10KOHMB	R7035		M 2.2KOHM, J,1/8W M 1KOHM, J,1/8W
R3007	ERD25FJ392	C 3.9KOHM, J.1/4W	R7036		T/B PIN CORRECTION
R3008	ERD25FJ103	C 10KOHM, J,1/4W	11.7030	CVIVD4AAOOB13	1 KOHMB
R3009	EVJFMAEA4B53	BRIGHTNESS 5KOHMB	R7037	ERJ8GCYJ104	C 100KOHM, J,1/8W
R3010	ERD25FJ822	C 8.2KOHM, J,1/4W	R7038		M 1KOHM, J,1/8W
R3011	EVJFLAEA4B14	CONTRAST 10KOHMB	R7040		M 1000HM, J, 1/8W
			R8001	EVJFLAEA4B14	R-V 10KOHMB
R3012	EVJFLAEA4B53	SHARPNESS 5KOHMB	R8002	EVJFLAEA4B14	R-H 10KOHMB
R3013	ERD25FJ473	C 47KOHM, J,1/4W	R8003	EVJFLAEA4B14	B-V 10KOHMB
R3014	ERD25FJ473	C 47KOHM, J,1/4W	R8004	1	B-H 10K0HMB
R3015	ERD25FJ104	C 100KOHM, J,1/4W	R8007	ERDS1FJ151	C 1500HM, J,1/2W
R3016	ERD25FJ104	C 100KOHM, J,1/4W	2000		
R3017	ERD25FJ273	C 27KOHM, J,1/4W	R8008	ERD25FJ182	C 1.8KOHM, J, 1/4W
R3018	EVJFLAEA4B24	V. HOLD 20KOHMB	R8009	ERD25FJ332 ERD25FJ392	C 3.3KOHM, J,1/4W
R3019 R3020	ERD25FJ222 ERD25FJ183	C 2.2KOHM, J,1/4W C 18KOHM, J,1/4W	R8011	ERD25FJ392	C 3.9KOHM, J,1/4W C 3.9KOHM, J,1/4W
R3020	ERD25FJ472	1	R8012	ERD25FJ392	C 3.9KOHM, J,1/4W
R7005	EVND4H00GB24	C 4.7KOHM, J,1/4W G STATIC CONVERGENCE	1.0012	CRD231 0032	0.3.3.0.1.4
K7005	EVND4H00GB24	2 OKOHMB	R8013	ERD25FJ562	C 5.6KOHM, J,1/4W
R7006	EVND4H00GB24	G STATIC CONVERGENCE	R8014	ERD25FJ183	C 18KOHM, J.1/4W
		2 OKOHMB	R8015	ERD25FJ183	C 18KOHM, J,1/4W
R7008	ERDS1FJ151	C 1500HM, J,1/2W	R8016	ERD25FJ183	C 18KOHM, J.1/4W
R7009	ERDS1FJ151	C 1500HM, J,1/2W	R8017	ERD25FJ183	C 18KOHM, J,1/4W
R7010	ERDS1FJ151	C 1500HM, J,1/2W			
R7011	EVND4H00GB24	H/L PIN. 20KOHMB	∆ R9001	ERF20HMK3R3	W 3.30HM, 20W
R7012	EVND4H00RB24	B-H CONVERGENCE			
22010	<u></u>	20KOHMB	∆ R9005	ERG2ANJ104H	M 100KOHM, J, 2W
R7013	EVND4H00BB24	CONVERGENCE	R9006	ERD25FJ222	C 2.2KOHM, J,1/4W
D7044	ED 1000V 1403	20KOHMB	∆ R9007	ERG2SJ102H ERG3SJ822H	M 1KOHM, J, 2W M 8.2KOHM, J, 3W
i .	ERJ8GCYJ103	M 10K0HM, J.1/8W M 10K0HM, J.1/8W	R9009	ERD25FJ392	M 8.2KOHM, J, 3W C 3.9KOHM, J,1/4W
	ERJ8GCYJ103 ERJ8GCYJ101	M 10KOHM, J,1/8W M 1000HM, J,1/8W		ERD25FJ472	C 4.7KOHM, J,1/4W
	ERUSGCYU101	M 2.2KOHM, J,1/8W	R9011	ERD25FJ101	C 1000HM, J,1/4W
	ERJ8GCYJ222	M 2.2KOHM, J,1/8W	R9012	ERD50FJ104	C 100KDHM, J,1/2W
	ERJ8GCYJ472	M 4.7KOHM, J,1/8W	R9013	ERD25FJ101	C 1000HM, J,1/4W
	211000070172		R9014	ERD50TJ104	C 100KOHM, J, 1/4W
R7020	ERJ8GCYJ394	C 390KOHM, J,1/8W	R9015	ERD25FJ221	C 2200HM, J, 1/4W
	ERJ8GCYJ103	M 10KOHM, J,1/8W	R9016	ERD25FJ221	C 2200HM, J, 1/4W
R7022	ERJ8GCYJ103	M 10KOHM, J,1/8W	R9101	ERD25FJ823	C 82KOHM, J,1/4W
R7023	EVND4H00RB24	R-H CONVERGENCE	R9102	ERG1SJ331P	M 3300HM, J, 1W
		20KOHMB		ERD25FJ100	C 100HM, J,1/4W.
R7024	EVND4H00BB24	B-H CONVERGENCE	1	ERD25TJ681	C 6800HM, J,1/4W
D700=	EDDC45 H24	20KOHMB	R9203	ERD25FJ121	C 1200HM, J,1/4W
	ERDS1FJ101	C 1000HM, J,1/2W	1	ERF2AKR68	W 0.680HM, K, 2W
	ERJ8GCYJ101 ERJ8GCYJ101	M 1000HM, J,1/8W M 1000HM, J,1/8W		ERG2SJ333H	M 33KOHM, J, 2W
	ERU8GCYU101	M 6.8KOHM, J,1/8W	R9206 R9207	ERDS1FJ120 ERG2SJ333H	C 120HM, J,1/2W M 33KOHM, J, 2W
	20000.0002	5.5.0.0, 5,1/6		2.1.025000011	JUNOIHI, U, ZW

Ref. No.	Part No.		Descript	ion		Ref. No.	Part No.		Descript	ion	
A 20200	ERD75TAJ825	_	8.2MOHM,	κ.	1/2W	C27	ECEA1CU330	Ε	33UF,		16V
∆ R9208 R9209	ERD25FJ393	C	39KOHM,	J.	1/4W	C28	ECEA1CU330	E	33UF,		16V
R9209	ERD2570393		100KOHM,				FCEA1CU330	E	33UF,		167
Æ R9210	ERQ12HKR27		0.270HM.				ECEA1CU330	E	33UF,		16V
⚠R9213	ERQ12HKR56P		0.560HM,			C31	ECEA1CU101	E	100UF,		16V
∆ R9214	ERQ12HKR22	F	0.220HM,	κ.	1/2W	C32	ECEA1CU101	Ε	100UF,		16V
⚠R9215	ERQ12HKR22		0.220HM,			C33	ECQM1H154KV	P	0.15UF,	Κ,	50V
⚠R9216	ERQ12HKR27		0.270HM,			C34	ECQM1H154KV	P	0.15UF,		
2010210	E I CO T E I I C I E I			•		C35			0.15UF,		50V
R9218	ERDS1TJ473	С	47KOHM,	J,	1/2W	C36	ECUX1H12OJC	МС	12PF,	J,	50V
R9303	ERD25FJ101	С	2200HM,	J,			ECUX1H12OJC				
R9304	ERD2AKR68	W		-		C38	,	L L			
R9305	ERG2SJ333H	М	33KOHM,			II .	ECUX1H103KE	- 1			
▲ R9307	ERD25FJ121	С	1200HM,			C40		4	0.01UF,		
R9308	ERD25FJ393	С	зэконм,			C41			0.01UF.		
R9309	ERD25TJ104	С	100KOHM,			C42	1	E	22UF,		16V
R9310	ERG2SJ333H	М	ззконм,		_	C43		E	47UF,	-	16V 50V
▲ R9311	ERD25FJ100	С	100HM,	J,	1/4W	C44	ECUX1H27OJC	MC	27PF,	Ο,	50 v
R9313	ERDS1TJ473	С	47KOHM,	J.	1/2W	C45	ECUX1H27OJC	M C	27PF,	J,	
R9401	ERDS1FJ121	c	1200HM.			C46	ECUX1H27OJC	M C	27PF,	J,	
						C47	ECEA1CN22OS	Ε	22UF,		16V
R9402	ERG3ANJ220H					C48	ECEA1CN22OS	Ε	22UF,		16V
R9403		С	820HM.	J,	1/2W	C49	ECEA1CN22OS	E	22UF,		16V
R9404		М	220HM,								
R9405	1	С	2200HM,	J,	1/4W	C51					
R9406		М	100HM,	J,	, 3W	C53		1			
R9407		С	2200HM,			C55					
R9408		С	390HM.			C56	1				16V
▲ R9501	ERC12ZGK105	S	1МОНМ,	J,	1/2W	C57	ECEA1CN3309	E	33UF,		16V
	CAPACITORS	-	7				ECEA1CN3309				16V 25V
		\equiv				11	ECEA1EN100S				
	ECEA1CU470	E			16V	11	ECQM1H104KV				50V
	ECEA1CN330S	E	33UF,		16V	11	ECEATHNO105				
	ECEA1CN330S	E	33UF,		167	C62	ECEA1HNO105	, -	101,		J0 V
	ECEA1CN330S	E	33UF,		16V	000	ECEA1CN100S	Ε	10UF,		16V
C16	ECEA1CU330	E	33UF,		16V		ECEA 1HN3R3		-		
			00115		4014	11	ECEATON330S				
	ECEA1CU330	E				11	ECEATONSSO.	E			35V
	ECEA1CU330	E			16V	11	ECUX1H390J	1			
	ECUX1H12OJCM					11	ECUXINSSOO		35(1,	,	501
	ECUX1H12OJCM					11	ECUX 1H471J	M	470PF,	J	501/
C21	ECUX1H12OJCM	C	12PF,	J	, 50V		ECEA1CU470	E			16V
1		_			40	11	ECEATOU470	E			16V
	ECEA1CU330	E			16V	11	ECEA1CU3SO	E			16V
L	ECEA1CU33O	E			16V	11	ECEA1HU3R3	E			50.V
	ECEA1CU330	E			16V	III .	LULATITUSKS		. 0.001,		J J.V
	ECEA1CU330 ECEA1CU470	E			16V 16V	11	ECEA1HU3R3	E	3.3UF,		50 V
520								L_			

Ref. No.	Part No.		Descrip	tion		Ref. No.	Part No.	Γ	Descript	ion	
		-									
	ECEA1HU3R3	Ε	3.3UF,				ECEA1EU221	E	- •		25V
	ECQM1H333JV		0.033UF,				ECEA1CU101	E			16V
	ECUX1H471JCM	C	470PF,	•			ECEA1CU101	E			16V
C77	ECEA1HUO10	E	1UF,		50V	C308	ECEA1HU100	E	10UF,		50V
	ECEA1HUO10	Ε	1UF,			1 B	ECEA1HU100	E	•		50V
- 1	ECUX1H223KBM		0.023UF,			1	ECUX1H103KBM			Κ,	
	ECUX1H221KBM	С	220PF,			i I	ECEA1CU101	E	-		16V
	ECEA1AU101	E	100UF,		100		ECUX1H103KBM	1		Κ,	
C83	ECUX1H680JCM	С	68PF,	J,	50V	C315	ECEA1CN100S	E	10UF,		16V
C84	ECUX1H68OJCM	C	68PF,	J,	50V		ECEA1HUO10	E	1UF,		50V
C85	ECUX1H150JCM	С	15PF,	J,	50V	C317	ECEA1CN100S	E	10UF,		16V
C86	ECUX1H221KBM	C	220PF,	Κ,		1	ECEA1HU100	E	10UF,		50V
	ECEA1CN330S	Ε	33UF,		16V	C319	ECEA1HU100	Ε	10UF,		50V
l 1	ECUX1H103KBM		0.01UF,								
	ECEA1AU101	E	100UF,		10V		ECUX1H560JCM				
	ECUX1H222KBM		2200PF,				ECEA1HU3R3	E	3.3UF,		50V
	ECQM1H334JV	P	0.33UF,	-			ECUX1H103KBM	1		-	
092	ECUX1H22OJCM	С	22PF,	J,	50V	C324	ECEA1CU330	Ε	33UF,		16V
	ECUX1H472KBM		4700PF,	-			ECUX1H103KBM	С	0.01UF,	Κ,	50V
i	ECUX1H222KBM	1	2200PF,				ECEA1CU330	E	33UF,		16V
l.	ECUX1H681JCM		680PF,		50V		ECUX1H103KBM		0.01UF,		50V
	ECEA1HU2R2	E	2.2UF,		50V		ECEA1CU330	E	33UF,		16V
C97	ECQM1H683KV	P	0.068UF,	Κ,	50V	1	ECUX1H103KBM		0.01UF,		1
600	E00M411470KW		0.047115		F01/	C335	ECUX1H220JCM	E	22PF,		50V
	ECQM1H473KV ECUX1H680JCM	,	0.047UF,	-		0000	E0117411074 1014		07005		501
	ECUX1H102KBM	C	68PF, 1000PF,				ECUX1H271JCM ECUX1H820JCM		270PF,	_	
	ECEA1EU470	E	47UF.		25V	C337		Ε	82PF, 22UF,		50V 16V
	ECEA1EU101	E	100UF,		25V	1 1		1	0.01UF,		
5200	LOLA (LO TO)	-	, ,			1 1	ECEA1CU331	E	330UF,	κ,	167
C204	ECEA1EU470	Ε	47UF,		25V		ECEA1CU100	Ε	10UF,		167
C205	ECUX1H102KBM	С	1000PF,	Κ,	50V	1 1			,		
C206	ECUX1H102KBM	С	1000PF.	Κ,	50V	C404	ECEA50ZR68	E	0.68UF,		50V
C207	ECEA1EU470	Ε	47UF,		25V	C405	ECKF1H681KB	С	680PF,	K.	50V
C209	ECEA1EU101	Ε	100UF,		25V		ECQM1H393KV	Р	0.039UF,	Κ,	50V
					- 1		ECSZ16EF2R2V	T	2.2UF,		160
t t	ECUX1H102KBM	l .	1000PF,			C408	ECQM1H222KV	P	2200PF,	Κ,	50V
1	ECEA1EU470	Ε	47UF,		25V	1					
	ECEA1EU101	E	100UF,		25V		ECEA1EU331	Ε	330UF,		25V
	ECEA1EU470	E	47UF,		25V		ECEA1EU101	E	100UF,		25V
C214	ECUX1H102KBM	С	1000PF,	Κ,	50V	1 1	ECEA1VU330	E	33UF,		35V
0015	ECEA4EU4C4	_	100115		OEV.		ECSZ25EF4R7N		4.7UF,		25V
	ECEA1EU101	E	100UF,		25V	6413	ECEA50Z4R7	E	4.7UF,		50V
1	ECUX1H102KBM ECEA1EU470	C	1000PF, 47UF,	_	25V		ECEA1VU4R7	Ε	A . 7115		35V
	ECEA1CN33OS	E	33UF,		16V	: 1			4.7UF, 3.3UF,		25V
	ECEA1CN330S	E	33UF,		16V			T	2.2UF,		25V
	ECEATON3303	E	22UF.		167	l l	ECEA1CU101	E	100UF,		16V
1	ECUX1H220JCM	E	22PF,		50V		ECQM1H104KV	P	0.1UF,	K	
			,					_	,		

	D. at No.		Descript	ion	· · · · · · · · · · · · · · · · · · ·	Ref. No.	Part No.		Descript	ion	
Ref. No.	Part No.		Describe	1011		nei. No.	raitivo.	_	Dosonipe		
C451	ECEA2CG4R7S	E	4.7UF,		1600	C604	ECUX1H101JCM	С	100PF,	J,	50V
C452		E	4.7UF,	•	50V	C605	ECUX1H150JCM	С	15PF,	J,	50V
	ECEA50ZR22	Ε	0.22UF,		50V	C606	ECUX1H151JCM	C	150PF,	J,	50V
C454		Ε	330UF,		1000	C607	ECUX1H103KBM	C	0.01UF,	Κ,	50V
C455		E	33UF,		160V	C608	ECQM1H272JV	P	2700PF,	J,	50V
		_	•								
C456	ECKD2H103PE2	С	0.01UF,	Ρ,	500V	C609		ı			
C457	ECEA1EN4R7S	Ε	4.7UF,			C610	ECUX1H330JCM		33PF,		
C458	ECQE2474KZ	Р			i	C611	ECUX1H470JCM				
C481			10UF,			C612				D,	50V
C482	ECEA1CU470	E	47UF,		16V	C613	TCRHA070G11	T	RIMMER		
C483	ECKF1H102KB	С	1000PF.	κ.	50V	C614	ECEA50ZR15	E	0.15UF,		50V
C484	_	С	1000PF,			C615		Р	8200PF,		50V
C485		E	1UF,		50V	C616		E	3.3UF,		25V
C486		1	10UF.		25V	C617		С	1000PF,	Κ,	50V
0400	202472111003		, ,						•		
C5O3	ECQM1H1O4KV	Р					ECUX 1HOGODCM				
C504	ECQM1H223KV	Р	0.022UF,			C619		į.	220PF,		
C505		E	3.3UF,			C620			68PF.		
C506		Р				C621	· ·		0.027UF,		
C511	ECQF6182KZ	Р	1800PF,	K,	,600V	C622	ECUX1H221KBM	C	220PF,	Κ,	50V
C512	ECQM1H682KV	Р	6800PF.	ĸ.	50 V	C623	ECUX1H103KBM	С	0.01UF,	Κ,	50V
C513	· ·	Ε	10UF,		16V	III	ECEA 1HUR47	E	0.47UF,		50V
C514		E	47UF,		16V	C625	1	С	0.01UF,	Κ,	50V
C515		E	22UF,		16V	C626	l ,	Ε	100UF,		16V
C516	i e	Ε	10UF,		16V	C627	ECUX1H821JCM	С	820PF,	J,	50V
C517	ECEA25Z3R3	E	3.3UF,		25V	CESS	ECEA1HU4R7	Ε	4.7UF.		50V
∆C518		E	1UF,		50V	C629		P	0.1UF,		_
C519			0.01UF,			C630		E	1UF,		50V
1	ECUX1H103KBM		0.01UF,			C631	1	1	-		
	ECEA1CN100S	E	10UF.		16V		ECUX1H180JCM	1	18PF,		
									00005		EOV
	ECKF1H102KB	C	1000PF,			11	ECUX1H221JCM				
l .	ECKF1H102KB	C	1000PF,			C634		P	0.01UF,		
1	ECKF1H103ZF	C	0.01UF,			C635			0.01UF,		
	ECEA1CU100	E	10UF,			C636		T	100PF,		16V
C556	ECQM1H272JV	P	2700PF,	J.	, 500	C637			33UF, 0.1UF,		
0550	FORESTREOND		ECOODE	V	EOV.	C638	· ·	P			
C558		C	5600PF, 10UF,				ECUX1H331JCM	1	-		
	ECEA1CU100	E	22UF,		16V	11	ECEA1HU100 ECUX1H103KBM	E	10UF, 0.01UF,		
	ECEA1CU220 ECEA1CU100	E	10UF,		16V	C641	ECOVILLIOSKEM	1	U.UIUF,	1,	3 Q V
C561	ECEA1CU220	E	22UF,		16V	C642	EVUX1H220JCM	C	22PF,		50V
0362	LOLA 100220	-	2201 ,		.54	li .	ECUX1H331KBM	1	330PF,		
0563	ECEA1CN100S	E	10UF,		16V	11	ECUX1H821KBM	1	820PF,		
C564		P				13	ECUX1H331KBM	1			
C601		1	47PF.			[1	ECEA1HU4R7	E	-		50V
	ECUX1H330JCM		33PF.			C647	1	E	1UF.		50V
	ECUX1H470JCM		47PF.			C648	EVUX1H220JCM	E	22PF,		50V
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Ref. No.	Part No.		Descript	ion		Ref. No.	Part No.		Descript	ion	
1101.140.	1 41 1 1 1 0 .	-									
C649	ECUX1H221KBM	С	220PF,	Κ,	50V	C732	ECCF1H150J	С	15PF.	J,	50V
C650		Р	0.01UF,	Κ,	50V	C733	ECEA1CU100	Ε	10UF,		16V
C651	- •	Р	0.01UF,			C735	ECEA1CU100	Ε	10UF,		16V
C652	·	С	120PF,			C736	ECQM1H473KV	Р	0.047UF,	Κ,	50V
C653		1	0.01UF,			C738	ECQM1H473KV	Р	0.047UF,	Κ,	50V
C654		Р	0.47UF,								
						C739	ECEAOJU101	Ε	100UF,	(6.3V
C655	ECUX1H102KBM	С	1000PF,	Κ,	50V	C740	ECEA1CU100	Ε	10UF,		16V
C656		С	120PF,	J,	50V	C741		Ε	10UF,		16V
C657	ECUX1H331KBM	С	330PF,			1	ECEA1CN100S	Ε	10UF.		16V
C658	ECUX1H103KBM	С	0.01UF,	Κ,		C745	ECEA1CU100	Ε	10UF,		16V
C671	ECEA1HU100	Ε	10UF,		50V						
						1	ECEA1CU100	Ε	10UF,		16V
C672		Р	0.01UF,			C747		E	100UF,		16V
C673		E	3.3UF,		50V	C748		Ε	1UF,		50V
C674			0.01UF,			C749	ECEAOJU470	Ε	47UF,	•	6.3V
C675			0.018UF,		50V	0754	E0540 11470	_	47115		
C676			0.039UF,	-	50V		ECEAOJU470	E	·		6.3V
C677			0.047UF,		50V	i I	ECEA1CU100	E			16V 16V
C678		E	33UF,		16V	C755	ECEA1CN470S ECEA1HUO10	E			50V
C679		E			16V	C757		E			25V
C680	ECEA1CU330	E	33UF,		16V	0/5/	ECEATENSKSS	-	3.301,		250
C701	ECEA1VU220	E	22UF,		35V	C758	ECEA1EN3R3S	Ε	3.3UF,		25V
C703		E	1UF,		50V	C762	ECEA1CN100S	E	10UF,		16V
C704		E	22UF,		35V	C763	ECQM1H1O4KV	Р	0.1UF,	Κ,	50V
C705		Ε	100UF,		35V	C764	ECEA1CU470	E	47UF,		16V
C706		Р	0.1UF,	Κ,	50V	C765	ECUX1H561KBM	С	560PF,	Κ,	50V
6707	ECEA1HUO1O	E	1UF,		50V	C766	ECEA1HNO1OS	Ε	1UF,		50V
	ECQM1H333KV		0.033UF,				ECQM1H103KV	P	•		
	ECEA1HUO10	Ε		-	50V	C768	ECQM1H102KV	P	1000PF,		
	ECEA1HNO10S	E	•		50V	C769	ECEA1VU100	E	10UF,		35V
-	ECCF1H680J	С				C770	ECQM1H1O4KV	Р	0.1UF,	Κ,	50V
C7 12	ECEA1HNO1OS	Ε	1UF,		50V	C771	ECEA1HN2R2S		2.2UF,		50V
3	ECEATHUO10	E	1UF,		50V	C981		Ε	22UF,		35V
1	ECEA1EU100	E			25V	C982		E	22UF,		16V
1	ECEA1HUO10	E	-		50V	C983		Ε	10UF,		160
	ECQM1H104KV	P				C984	ECEA1CU22O	Ε	22UF,		16V
C700	ECEA1HNO10S	E	1UF,		50V	C985	ECEA1VU100	Ε	10UF,		35V
C720		P					ECEA1VU100	E	10UF,		35V
C721		E	-	-	50V	C987		E	47UF,		25V
C722		E	-		167		ECEA1EU470	E	47UF.		25V
C724	1	P	-				ECEA1HUO10	E	1UF,		50V
C725	ECEA1CU101	Ε	100UF,		16V	C990	ECEA1HUO1O	Ε	1UF,		50V
C726		E			50V	C991	· ·	E	1UF,		50V
C727		E	-		50V	C992		E	10UF,		16٧
	ECQM1H473KV	Р				C993	1	E	10UF,		167
	ECEA1EU221	E			257	C994	,	Ë	10UF,		16٧
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C1001 ECEA1CU100 E 10UF, 16V C1418 ECQE12683KZ P 0.068UF, K, 1. C1004 ECEA1CU101 E 100UF, 16V C1501 ECEA1CU330S E 33UF, C1006 ECEA1CU101 E 100UF, 16V C1502 ECQM1H333KV P 0.033UF, K, C1007 ECEA1CU101 E 100UF, 16V C1503 ECEA1CU331 E 33UF, C1008 ECEA1EU470 E 47UF, 25V C1504 ECEA1CU331 E 33UF, C1010 ECKF1H103ZF C 0.01UF, 2.50V C1505 ECQM1H333KV E 22UF, C1011 ECEA2ES100 E 10UF, 250V C1506 ECEA1HU100 E 10UF, C1012 ECEA1CU300 E 33UF, 16V C1507 ECEA1CU33KV C1509 ECQM1H333KV C1201 ECEA1CU300 E 33UF, 16V C1509 ECQM1H333KV C1509 ECQM1H333KV C1202 ECEA1CU305 E 33UF, 16V C1509 ECQM1H333KV C1509 ECQM1H333KV C1203 ECEA1HN010S E 33UF, 16V C1511 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 10F, 50V C1512 ECEA1CU331 E 330UF, C1205 ECEA1CN100S E 10UF, 50V C1513 ECEA1CU331 E 330UF, C1206 ECEA1HU4R7 E 4.7UF, 50V C1515 ECEA1CU32F C 0.01UF, Z, C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS300 E 33UF, 100UF, 100UF,
C1004 ECEA1CU101 E 100UF, 16V C1501 ECEA1CN330S E 33UF, C1006 ECEA1CU101 E 100UF, 16V C1502 ECQM1H333KV P 0.033UF, K, C1007 ECEA1CU101 E 100UF, 16V C1503 ECEA1CU331 E 330UF, C1008 ECEA1EU470 E 47UF, 25V C1504 ECEA1CU331 E 330UF, C1011 ECEA2ES100 E 10UF, 250V C1506 ECEA1HU100 E 10UF, 16V C1507 ECEA1CN100S E 10UF, C1013 ECEA1CU330 E 33UF, 16V C1508 ECQM1H333KV P 0.033UF, K, C1201 ECEA1CU330 E 33UF, 16V C1508 ECQM1H333KV P 0.033UF, K, C1201 ECEA1CN30S E 33UF, 16V C1508 ECQM1H333KV P 0.033UF, K, C1202 ECEA1CN20S E 22UF, 16V C1508 ECQM1H333KV P 0.033UF, K, C1203 ECEA1CN20S E 22UF, 16V C1509 ECQM1H333KV P 0.033UF, K, C1204 ECEA1CN20S E 10UF, 50V C1511 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 1UF, 50V C1512 ECEA1CU331 E 330UF, C1205 ECEA1HU010 E 1UF, 50V C1512 ECEA1HU4R7 E 4.7UF, C1513 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF, 50V C1516 ECEA2CS100 E 10UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 15V C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 15V C1516 ECEA2CS3R3 E 3.3UF, 15V C1516 ECEA2CS3R3
C1005 ECEA1CU101
C1006 ECEA1AU101 E 100UF. 10V C1502 ECQM1H333KV P 0.033UF, K, C1007 ECEA1CU101 E 100UF. 16V C1503 ECEA1VU220 E 22UF. C1504 ECEA1CU331 E 330UF. C1010 ECKF1H103ZF C 0.01UF. Z, 50V C1505 ECQM1H333KV P 0.033UF, K, C1011 ECEA2ES100 E 10UF. 250V C1506 ECEA1HU100 E 10UF. C1012 ECEA1CU330 E 33UF. 16V C1507 ECEA1CN100S E 10UF. C1509 ECQM1H333KV P 0.033UF, K, C1201 ECEA1CN330S E 33UF. 16V C1508 ECQM1H333KV P 0.033UF, K, C1202 ECEA1CN20S E 22UF. 16V C1510 ECEA1VU220 E 22UF, C1203 ECEA1HU010 E 1UF. 50V C1511 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 1UF. 50V C1512 ECEA1HU4R7 E 4.7UF. C1513 ECKF1H103ZF C 0.01UF. Z, C1206 ECEA1HU4R7 E 4.7UF. 50V C1516 ECEA2CS100 E 10UF. 1 ECEA2CS3R3 E 3.3UF, 1 ECEA2CS3R3
C1007 ECEA1CU101 E 100UF, 16V C1503 ECEA1VU220 E 22UF, C1504 ECEA1CU331 E 330UF, C1008 ECEA1EU470 E 47UF, 25V C1504 ECEA1CU331 E 330UF, C1010 ECKF1H103ZF C 0.01UF, Z, 50V C1505 ECQM1H333KV P 0.033UF, K, C1011 ECEA2ES100 E 10UF, 16V C1507 ECEA1CN100S E 10UF, 16V C1508 ECQM1H333KV P 0.033UF, K, C1509 ECEA1CN100S E 1UF, 50V C1510 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 1UF, 50V C1511 ECEA1CU331 E 330UF, C1504 ECEA1HU010 E 1UF, 50V C1512 ECEA1HU4R7 E 4.7UF, C1513 ECKF1H103ZF C 0.01UF, Z, C1205 ECEA1CN100S E 10UF, 16V C1516 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1008
C1010 ECKF1H103ZF C 0.01UF, Z, 50V C1505 ECQM1H333KV P 0.033UF, K, C1011 ECEA1CU100 E 10UF, 16V C1507 ECEA1CU100S E 10UF, C1508 ECQM1H333KV P 0.033UF, K, C1509 ECQM1H333KV C1509 ECQM1H333KV P 0.033UF, K, C1509 ECQM1H333KV C1509 ECQM1H333KV P 0.033UF, K, C1201 ECEA1CN200S E 22UF, 16V C1509 ECQM1H333KV P 0.033UF, K, C1202 ECEA1CN200S E 22UF, 16V C1510 ECEA1VU220 E 22UF, C1203 ECEA1HN010S E 1UF, 50V C1511 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 1UF, 50V C1512 ECEA1HU4R7 E 4.7UF, C1513 ECKF1H103ZF C 0.01UF, Z, C1205 ECEA1CN100S E 10UF, 16V C1514 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF, 50V C1515 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1011 ECEA2ES100 E 10UF, 250V C1506 ECEA1HU100 E 10UF, C1507 ECEA1CN100S E 10UF, C1507 ECEA1CN100S E 10UF, C1508 ECQM1H333KV P 0.033UF, K, C1201 ECEA1CN220S E 22UF, 16V C1510 ECEA1VU220 E 22UF, C1203 ECEA1HN010S E 1UF, 50V C1511 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 1UF, 50V C1512 ECEA1HU4R7 E 4.7UF, C1508 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF, ECEA1CU31 ECKF1H103ZF C 0.01UF, Z, C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS100 E 10UF, 1 100UF, 1 1
C1012 ECEA1CU100 E 10UF, 16V C1507 ECEA1CN100S E 10UF, C1508 ECQM1H333KV P 0.033UF, K, C1201 ECEA1CN220S E 22UF, 16V C1510 ECEA1CU220 E 22UF, C1203 ECEA1HN010S E 1UF, 50V C1511 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 1UF, 50V C1512 ECEA1HU4R7 E 4.7UF, C1513 ECKF1H103ZF C 0.01UF, Z, C1205 ECEA1CU101 E 100UF, 16V C1515 ECEA2CS100 E 10UF, 16V C1506 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1013 ECEA1CU330 E 33UF, 16V C1508 ECQM1H333KV P 0.033UF, K, C1201 ECEA1CN220S E 22UF, 16V C1510 ECEA1VU220 E 22UF, C1203 ECEA1HN010S E 1UF, 50V C1511 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 1UF, 50V C1512 ECEA1HU4R7 E 4.7UF, C1513 ECKF1H103ZF C 0.01UF, Z, C1205 ECEA1CU101 E 100UF, 16V C1515 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1201 ECEA1CN330S E 33UF. 16V C1202 ECEA1CN22OS E 22UF. 16V C1510 ECEA1VU22O E 22UF. C1203 ECEA1HN010S E 1UF. 50V C1511 ECEA1CU331 E 330UF. C1204 ECEA1HU010 E 1UF. 50V C1512 ECEA1HU4R7 E 4.7UF. C1513 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF. 50V C1515 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1201 ECEA1CN330S E 33UF. 16V C1510 ECEA1VU22O E 22UF. C1203 ECEA1HN010S E 1UF. 50V C1511 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 1UF. 50V C1512 ECEA1HU4R7 E 4.7UF. C1513 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF. 50V C1515 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1202 ECEA1CN22OS E 22UF, 16V C1510 ECEA1VU22O E 22UF, C1203 ECEA1HN01OS E 1UF, 50V C1511 ECEA1CU331 E 33OUF, C1204 ECEA1HU01O E 1UF, 50V C1512 ECEA1HU4R7 E 4.7UF, C1513 ECKF1H103ZF C 0.01UF, Z, C1205 ECEA1CN10OS E 10UF, 16V C1514 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF, 50V C1515 ECEA2CS10O E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1203 ECEA1HN010S E 1UF, 50V C1511 ECEA1CU331 E 330UF, C1204 ECEA1HU010 E 1UF, 50V C1512 ECEA1HU4R7 E 4.7UF, C1513 ECKF1H103ZF C 0.01UF, Z, C1205 ECEA1CU100S E 10UF, 16V C1514 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF, 50V C1515 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1204 ECEA1HU010 E 1UF, 50V C1512 ECEA1HU4R7 E 4.7UF, C1513 ECKF1H103ZF C 0.01UF, Z, C1205 ECEA1CN100S E 10UF, 16V C1514 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF, 50V C1515 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1205 ECEA1CN100S E 10UF, 16V C1513 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF, 50V C1515 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1205 ECEA1CN100S E 10UF, 16V C1514 ECKF1H103ZF C 0.01UF, Z, C1206 ECEA1HU4R7 E 4.7UF, 50V C1515 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1206 ECEA1HU4R7 E 4.7UF, 50V C1515 ECEA2CS100 E 10UF, 1 C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
C1207 ECEA1CU101 E 100UF, 16V C1516 ECEA2CS3R3 E 3.3UF, 1
04000 E0E440H470 E 47HE 48Y D4K47 E0E4906990 E 99HE 4
C1209 ECEA1EN4R7S E 4.7UF, 25V C1518 ECEA2CS100 E 10UF, 1
C1210 ECEA1CU470 E 47UF, 16V C1519 ECEA2CS3R3 E 3.3UF, 1
C1211 ECCF1H121JP C 120PF, J, 50V C1521 ECQE2105KS P 1UF, K,2
C1212 ECEA1CN22OS E 22UF, 16V C1522 ECEAOJU222 E 220OUF, 6
C1213 ECEA1CN33OS E 33UF, 16V C1523 ECQV1H474JZ P 0.47UF, J,
C1214 ECEA1CN33OS E 33UF, 16V C1524 ECQM1H333KV P 0.033UF, K,
C1215 ECEA1HNO10S E 1UF, 50V C1551 ECKD2H182KB2 C 1800PF, K,5
C1216 ECEA1CU101 E 100UF, 16V C1552 ECKD3D222JBN C 2200PF, J.
C1217 ECKF1H103ZF C 0.01UF, Z, 50V C1553 ECQM1H273KV P 0.027UF, K,
C1282 ECUX1H681JCM C 680PF, J, 50V C1555 ECWH12H682JS P 6800PF, J, 1.
C1401 ECES2CV221S E 220UF, 160V C1556 ECQE2105KS P 1UF, K,2
C1402 ECEA1VU102 E 1000UF, 35V C1557 ECQE2105KS P 1UF, K,2
C1403 ECKD2H182KB2 C 1800PF, K,500V C1558 ECQM1H273KV P 0.027UF, K,
C1404 ECEA1CU102 E 1000UF, 16V C1559 ECEA1HU100 E 10UF,
C1405 ECQE2475KS P 4.7UF, K,250V C1560 ECKF1H152KB C 1500PF, K,
C1406 ECEA1VU4R7 E 4.7UF, 35V C1561 ECEA1HU100 E 10UF,
C1407 ECKF1H472ZF C 4700PF, Z, 50V C1562 ECQM1104KZ P 0.1UF, K,1
C1408 ECQE2104KS P 0.1UF, K,250V C1601 ECEA1EN100S E 10UF,
C1409 ECKD2H151KB2 C 150PF, K,500V C1602 ECEA1VU100 E 10UF,
C1411 ECEA1HUR47 E 0.47UF, 50V C1603 ECEA1EN100S E 10UF,
C1412 ECQE2474MS P 0.47UF, M,250V C1604 ECEA1EU220 E 22UF,
C1413 ECEA2ES4R7 E 4.7UF, 250V C1701 ECKF1H103ZF C 0.01UF, Z,
AC1414 ECKD3D222JBN C 2200PF, J. 2KV C1702 ECCF1H471J C 470PF, J.
AC1415 ECKD3D222JBN C 2200PF, J. 2KV C1703 ECCF1H561J C 560PF, J.
AC1416 ECKD3D222JBN C 2200PF, J. 2KV C1704 ECKD2H103MD2 C 0.01UF, M,5
C1417 ECQE10683KU P 0.068UF, K, 1KV C1705 ECKD3D222JBN C 2200PF, J.

Ref. No.	Part No.		Descript	ion	Ref. No.	Part No.		Descript	ion
									4.514
	ECEA2ESO10	Ε		250V	1	ECEA1CU222	Ε	2200UF,	
	ECKF1H103ZF	С	0.01UF,		∆ C9224		E	100UF,	
	ECCF1H471J	C	470PF,		C9225		С	4700PF,	
C1803	ECCF1H561J	С		J, 50V	C9226	ECKF1H101KB	С	100PF,	K, 50V
C1804	ECKD2H103MD2	C	0.01UF,	M,500V					
					C9227	ECEA1CU222	Ε		
C1805	ECKD3D222JBN	С	2200PF,	J, 2KV	C9228	ECKF1H472KB	C	4700PF,	K, 50V
C1807	ECEA2ESO10	E	1UF,	250V	C9229	ECEA2WS2R2	Ε	2.2UF,	
	ECKF1H103ZF	С	0.01UF,	Z. 50V	∆ C9230	ECKDNS102MBX	C	1000PF,	
	ECCF1H471J	C		J, 50V	∆ C9231	ECKDNS222MEX	С	2200PF,	
1	ECCF1H561J	С	•	J, 50V					
01300	1			,	C9232	ECKF1H682KB	С	6800PF,	K. 50V
C1904	ECKD2H103MD	С	0.01UF,	M 500V	l I	ECKF1H102KB	С	1000PF,	
	ECKD3D222JBN	C	2200PF.		C9301			0.022UF,	-
			1UF,	-		ECEA1CU221	Ε	220UF,	
	ECEA2ESO10	E				ECEA1CU101	E	100UF,	
C3001	ECKF1H103ZF	С		Z, 50V	69303	ECEATCOTOT	-	1000F,	100
∆ C9001	ECKD2H472PE8	С	4700PF,		00005	FOUNDATION		2700PF.	K 500V
∆ C9002	ECKD2H472PE8	С	4700PF,	500V	1	ECKD2H272KB2	С		•
▼ C9003		C	4700PF,		C9306	ECEA1AU331	Ε	3300F,	10V
 ∆C9004		С	4700PF,						
 ∆C9005	ECES2GU221T	Ε	220UF,	:400V	*	ECKD3D101KBN			
 ∆C9006	ECES2GU221T	Ε	220UF,	400V	C9308	ECKD3D101KBN	С	100PF,	K, 2KV
C9008	ECKF1H472KB	С	4700PF,	K, 50V	C9309	ECKD2H102KB2	С	1000PF.	K,500V
					C9310	ECKD3A221KBN	C	220PF,	1KV
AC9010	ECQE6334KZ	P	0.33UF,	M, 600V	∆ C9311	ECES2CG471M	Ε	470UF.	160V
1	ECEA1VU331	E	330UF,		C9312	ECKD2H472PE8	C	4700PF,	P,500V
	ECKF1H103ZF	c	0.01UF,		C9313	ECKF1H222KB	C	2200PF,	K, 50V
C9201	· ·	1	0.022UF,		C9314	ECKF1H101KB	С	100PF,	K. 50V
C9202		Ε				ECEA1EU331	Ε	330UF,	25V
00202	LOLATOGLET	-	,			ECKF1H102KB	С	1000PF,	
Casos	ECEA1CU470	F	47UF,	16V	11	ECEA2WS4R7	E	4.7UF,	
C9205		c	2700PF,			ECEA1EU100	Ε	10UF,	
	ECEA1AU331	E	330UF,	-		ECEA1EU102	Ē	1000UF,	
				K, 2KV		ECEA1EU100	E	10UF.	25V
	ECKD3D101KBN			K, 2KV		ECEA1EU102	E	1000UF,	25V
	ECKD3D101KBN	1		K, 50V	11	ECEA1CU100	E	100001,	
	ECKF1H101KB	C			11	ECEATCU102	E	1000F,	167
C9211	ECKD2H101KB2	6	1000	K,500V	11		E	330UF,	35V
				5014	11	ECEA1VU331		•	
	ECKF1H101KB	C		•		ECQE6334KZ	P	0.33UF,	600V
1	ECKF1H101KB	С		K, 50V	∆ C9502		C	1000PF,	600V
	ECKD3A101KBN	C	100PF,		∆ C9503	ECKDNS102MBX	C	1000PF,	600V
∆ C9215	ECEA1EG222S	E	2200UF,					7	
C9216	ECKF1H472KB	С	4700PF,	K, 50V		COILS			
∆ C9217	ECEA2ES220	E	22UF,	250V	! #	TLP408	l l	ERRITE CO	
	ECKD2H472PE8	С	4700PF,	P,500V	14	TLP408		ERRITE CO	
	ECEA1VG221S	E	220UF,	35V	11	TLP408	FE	ERRITE CO	RE
	ECKF1H472KB	C	4700PF,		L204	TLP408	FE	ERRITE CO	RE
_	ECEA1EU222	E	2200UF,	-	L205	TLP408	FE	ERRITE CO	RE
C9222	ECKF1H472KB	С	4700PF,	K, 50V	L206	TLP408	FE	ERRITE CO	RE

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
L301	EFDMA645B85F	DELAY LINE	∆ L9001	TLP13514V	FILTER
	TLK158064	CHROMA IF TRANS.		T01/4004	2011
	TLK860-1	DELAY LINE, VIDEO		TSK1004	COIL
L304	TLX820J166C	PEAKING COIL	L9208		CHOKE COIL PEAKING COIL 10U
				TLQ100J126	PEAKING COIL 10U PEAKING COIL
	TLT180K991K	PEAKING COIL 18U		TLT300K119C	CHOKE COIL
	TLT221K991K	PEAKING COIL 220U		TSC925-4	PEAKING COIL 10U
	TLT150J991K	PEAKING COIL 15U	L9301	TLQ100K126 TSC925-4	CHOKE COIL
	TLT120J991K	PEAKING COIL 12U PEAKING COIL 680U	li i	TSC925-4	CHOKE COIL
Fe03	TLT681K991K	PEAKING COIL 6800	L9302		PEAKING COIL 12U
	TI TOOO 100414	PEAKING COIL 82U			PEAKING COIL 120
	TLT820J991K	-		TLQ100J126 TLP13514V	PEAKING COIL TOO
L605	TLT100J991K	PEAKING COIL 10U PEAKING COIL 680U	∆ L9501	1LP13514V	<u> </u>
F606	TLT681K991K			TRANSFORMERS	
L607	TLT512J166C	PEAKING COIL 5.1M		INAMOPONIMENS	
L608	TLT681K991K	PEAKING COIL 680U	T1401	TI HC 422	H DRIVE TRANS.
		DEAKTNO COTI COLL	11401	TLH6433	IN DRIVE TRANS.
L609	TLT390K991K	PEAKING COIL 39U	∆ T1402	TLF14582F1	FLYBACK TRANS
L610	TLT047K991K	PEAKING COIL 4.7U	A 1 1402		FLYBACK TRAINS
L611	TLK61008	HI-PEAKER TRANS. PEAKING COIL 15U	T1551	TLH6433	H DRIVE TRANS.
L612	TLT150K991K	PEAKING COIL 15U PEAKING COIL 10U	T1551		COIL
L613	TLT100K991K	PEARING COIL 100		ETP41D103E	REMOCON TRANS
L614	TLT121K991K	PEAKING COIL 120U	∆ T9201		SWITCHING TRANS
	TLK155053	CHROMA IF TRANS.	T9202	I .	CHOPPER TRANS.
L616	TLT150K991K	PEAKING COIL 15U	∆ T9301	l .	SWITCHING TRANS
L617	TLK158066	1H MATCHING COIL	T9302	ł	CHOPPER TRANS.
L618	TLQ082J205C	PEAKING COIL 8.2U	- 13002		
2010	1,000202030	EARLING 3012 3123		DIODES	
L619	TLK61008	HI-PEAKER TRANS.			
L620	TLK61008	HI-PEAKER TRANS.	D9	MA151K	DIODE
L621	EFDEN645A11G	DELAY LINE	D10	MA151K	DIODE
L622	TLK66056-1	CHROMA TRANS.	D11	MA151K	DIODE
L1201	TLT542K991K	PEAKING COIL 5.4M	D12	MA151K	DIODE
	12.0.12		II .	MA 151K	DIODE
11401	TLT030L119C	PEAKING COIL 3U	D15	MA151WK	DIODE
1	TSC911	BEAD CHOKE	D16	MA 1068	ZENER DIODE
		PEAKING COIL 1.5M	D17	MA151WK	DIODE
L1551	TLT030L119C	PEAKING COIL 3U	D18	MA 1068	ZENER DIODE
	TLH6663P	LINEALITY COIL			
	TSC911	BEAD CHOKE	11	MA151WK	DIODE
	TLQ470J126	PEAKING COIL 47U	D20	MA 1068	ZENER DIODE
	TLQ120J126	PEAKING COIL 12U	D21	MA 1 1 1 0 M	ZENER DIODE
L1703		PEAKING COIL 100U	11	MA151K	DIODE
L1801	TLQ470K126	PEAKING COIL 47U	D23	MA151K	DIODE
	0	DEALITING COTT 4011	D04	MA 1069	ZENED DIODE
	TLQ120J126	PEAKING COIL 1001	11	MA 1068 MA 1036	ZENER DIODE
	TLQ101K126	PEAKING COIL 100U PEAKING COIL 47U	11	MA151WK	DIODE
	TLQ470K126	PEAKING COIL 470	II	MA151K	DIODE
	TLQ120J126	PEAKING COIL 120	III.	MA151K	DIODE
L1903	TLQ101K126	LEWING COTT 1000	020	PATOTA	01000

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D31 D32 D33	MA151K MA151K MA151K MA151K MA151K MA151K	DIODE DIODE DIODE DIODE	D602 D603 D604	MA156 MA151K MA151K MA162 MA27WA	DIODE DIODE DIODE DIODE
D36 D37 D38	MA151K MA151K MA151K MA151K MA151K	DIODE DIODE DIODE DIODE	D672 D673	MA 151K MA 151K MA 151K MA 151K OA 91	DIODE DIODE DIODE DIODE
D41 D42 D43	MA151K TVSQB106R MA151K MA151K MA151WK	DIODE ZENER DIODE DIODE DIODE DIODE	D701 D706 D710	MA151WK MA151K MA162 TVSRD6.2EB TVSQA206C	DIODE DIODE DIODE ZENER DIODE ZENER DIODE
D47 D48 D301	MA151WK MA151WK MA151K OA9OG MA27WA	DIODE DIODE DIODE	D714 D715 D716	MA1G2 TVSRD2.7EB1 TVSRD2.7EB1 MA1G2 MA1G2	DIODE ZENER DIODE ZENER DIODE DIODE DIODE
D305 D306	MA 151K MA27T—A MA 151WK MA 151K	DIODE DIODE DIODE DIODE	D719 D720 D721	MA162 MA151A MA28T-A MA28T-A MA151WA	DIODE DIODE DIODE DIODE
D401 D402	MA28W MA154WK MA154WK MA154WK	DIODE DIODE DIODE	D724 D725	TVSRD6.2EB MA151K MA151K TVSQA211D	ZENER DIODE DIODE DIODE DIODE
D405 D406 D407	MA28T-A MA28T-A MA151K MA28T-A MA28T-A	DIODE DIODE DIODE DIODE	D728 D1001 D1002	TVSRD9.1EB TVSQA206C MA1130M MA162 TVSRM1	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE
D410 D451 D482	MA1200M MA151A MA27W MA162 MA162	DIODE DIODE DIODE DIODE	D1009 D1010 D1011	MA1130 MA1130 MA1130 MA1130 MA1130	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE
D503 ΔD507 D508	MA162 TVSQA211M TVSQA207M3 TVSRM1Z MA162	DIODE ZENER DIODE ZENER DIODE DIODE DIODE	D1016 D1017 D1018	MA1130 MA1130 MA1130 MA1130 MA1130	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D1021	MA1062M	ZENER DIODE	D9208	TVSRG4YK2	DIODE
	MA27T-B	,	1		
	MA 150	DIODE	△D9209	TVSC2406M	DIODE
	MA 1051	ZENER DIODE	13	ESAC85009F9	DIODE
	MA 150	DIODE		TVSQA212B	ZENER DIODE
D1203	MATOO	01300	- 11	MA 1 150M	DIODE
D1204	MA150	DIODE	- 11	MA 162	DIODE
D1204		DIODE	- 11	MA 162	DIODE
	MA 150	DIODE	11	ON3105	PHOTO COUPLER
D1402		DIODE	11	TVSB4402	DIODE
D1403		· I		TVSB4402	DIODE
△ D1404	MA 1091	ZENER DIODE	11	TVSC2408M	DIODE
		2.005		TVSQA212B	ZENER DIODE
	MA162	DIODE	109304	IVSUAZIZB	ZENER DIODE
D1407		DIODE			2.005
	TVSRU1	DIODE	11	CTG-26SLF-I	DIODE
D1409	TVSRU2	DIODE		MA 1 1 2 0 M	ZENER DIODE
D1410	TVSRU2	DIODE		MA1150M	DIODE
				TVSRG2Z	DIODE
D1411	TVSRU2	DIODE	III .	MA162	DIODE
D1412	TVSEM1Z	DIODE	D9311	MA162	DIODE
D1413	TVSEM1Z	DIODE	△ D9312	ON3105	PHOTO COUPLER
D1415		DIODE	D9401	TVSQB115ZB	ZENER DIODE
D1551	TVSC2715M	DIODE	D9402	MA27T-B	
D1601	TVSRC2	DIODE	D9403	TVSQB115ZB	ZENER DIODE
	TVSRC2	DIODE	1		İ
D1701	TVSRC2	DIODE	D9404	MA27T-B	
D1801		DIODE	D9405	MA 1 100H	ZENER DIODE
D1901	TVSRC2	DIODE	D9406	MA27T-B	
△D9001	TVSC0110	DIODE			
2209001	1 4300110	01002		I. C	
⚠ D9002	TVSC0110	DIODE			1 (
⚠ D9003	TVSC0110	DIODE	11	TVS4LS04	IC (HEX INVERTER)
▲ D9004	TVSC0110	DIODE	IC11		IC (NAND GATE)
	MA162	DIODE	11	TC4053BP	BLUE MODE SELECT
	MA 162	DIODE	11	TC4053BP	BLUE MODE SELECT
			IC14	TC4053BP	VIDEO/RGB SWITCHING
D9007	TVSQA209C	ZENER DIODE			
	TVSQA211M	ZENER DIODE	IC15	AN610P	SHADING CORRECTION(R)
△ D9009		VARISTOR	IC16	AN610P	SHADING CORRECTION(G
	TVSRM10B	DIODE	IC17	ANG10P	SHADING CORRECTION(B)
	TVSQA211M	ZENER DIODE	IC18	AN5355	VIDEO/TEST SWITCHING
09102	IVSQAZITW	ZEINER BIOBE	IC19	TC4040BP	GROSSHATCH
50400	*** 4 60	DIODE			GENERATOR
	MA 162	LED (RED)	10301	MN4066B	IC (SWITCH)
1	LN21RPHL	· ·		AN5615	IC (VIDEO)
	TVSB4402	DIODE	- 11	AN5429	IC (DEF, SYNC)
	TVSB4402	DIODE		AN90C23	SELECTOR
D9203	TVSC2408M	DIODE	- 11	AN90C23	SELECTOR
A D9204	ESAC85009	DIODE			
	TVSC2408M	DIODE	IC501	AN90C23	SELECTOR
	TVSRG2Z	DIODE	- 11	AN90C23	SELECTOR
		DIODE	IC551		HD DELAY
Z7708501	MA650	DIODE			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
IC552	TVSTC4053BP	IC (MULTIPREXER)	Q29	2SB709-R	EMITTER FOLLOWER
IC554	AN78MO5LB	IC (VOLTAGE REG.)			MIX
			Q30	2SD601-R	EMITTER FOLLOWER
IC601	AN5625N	IC (PAL COLOR)	Q31	2SD601-R	EMITTER FOLLOWER
10602	AN5635N	IC (SECAM COLOR)	Q32	2SD601-R	EMITTER FOLLOWER
IC671	AN5641	IC (SYSTEM)	Q33	2SB709-R	EMITTER FOLLOWER
IC701	TVSSTK4101M2	IC PWB			
IC702	TVSSTK4101M2	IC PWB	Q34	2SB709-R	EMITTER FOLLOWER
IC703	TVSSTK4101M2	IC PWB	Q35	2SB709-R	EMITTER FOLLOWER
IC704	AN904	IC (DIFF AMP)	Q36	2SB709-R	EMITTER FOLLOWER
IC705	AN904	IC (DIFF AMP)	Q37	2SB709-R	EMITTER FOLLOWER
IC706	AN904	IC (DIFF AMP)	Q38	2SB709-R	EMITTER FOLLOWER
IC707	AN904	IC (DIFF AMP)	Q39	2SD601-R	BLACK LEVEL CLAMP
IC1001	AN78MO5	IC (VOLTAGE REG.)	Q40	2SD601-R	BLACK LEVEL CLAMP
IC1002		INPUT SELECT MANU/	Q41	2SD601-R	BLACK LEVEL CLAMP
		REMO	Q42	2SD601-R	BLACK LEVEL CLAMP
IC1003	TC4053BP	INPUT SELECT MANU/	Q43	2SD601-R	BLACK LEVEL CLAMP
		REMO .			
IC1004	TC4053BP	INPUT SELECT MANU/	Q44	2SD601-R	BLACK LEVEL CLAMP
		REMO	Q45	2SD601-R	BLACK LEVEL CLAMP
IC1201	TVSTC4066BP	IC (SWITCH)	Q46	2SD601-R	BLACK LEVEL CLAMP
∆IC9201	TNH11505AZ	OSC CONTROL ARD	Q47	2SB709-R	AMP.
∆ IC9301	TNH11505AZ	OSC CONTROL	Q48	2SB709-R	AMP.
			Q49	2SB709-R	AMP.
	TRANSISTORS		Q50	2SB709-R	EMITTER FOLLOWER
				2SB709-R	EMITTER FOLLOWER
Q9	2SD601-R	BUFFER	1	2SB709-R	EMITTER FOLLOWER
Q10	2SD601-R	BUFFER	Q53	2SD601-R	SAW WAVE CONTROL
Q11	2SD601-R	BUFFER			
Q12	2SC2295-B	AMP.		2SD601-R	AMP.
Q13	2SC2295-B	AMP.		2SD601-R	V. SAW WAVE CONTROL
Q14	2SC2295-B	AMP.		2SD601-R	EMITTER FOLLOWER
Q15	2SC2295-B	CLAMP		2SD601-R	INVERTER
Q16	2SC2295-B	CLAMP	Q58	2SD601-R	INVERTER
Q17	2SC2295-B	CLAMP			
Q18	2SD601-R	CLAMP	1	2SD601-R	SWITCH
Q19	2SD601-R	CLAMP	1	2SD601-R	SWITCH
Q20	2SD601-R	CLAMP	1	2SD601-R	SWITCH
Q21	2SB709-R	EMITTER FOLLOWER MIX	1.	2SB709-R 2SB709-R	EMITTER FOLLOWER
022	2SB709-R	FINE BLUE COMPOSITION			
	2SB709-R	EMITTER FOLLOWER	Q64	2SB709-R	EMITTER FOLLOWER
425	235703 K	MIX		2SD601-R	INVERTER
024	2SB709-R	EMITTER FOLLOWER		2SB709-R	PROTECTOR
	2SD601-R	SQUARE WAVE		2SD601-R	COMPOSITE SYNC ON
423	235551 11	GENERATOR		2SD601-R	PROTECTOR
026	2SD601-R	SQUARE WAVE			
ا ۷۷۷	230001 N	GENERATOR	072	2SD601-R	H. PULSE ON
027	2SD601-R	EMITTER FOLLOWER		2SB709-R	INVERTER
42/	230001 N	MIX	,	2SD601-R	INVERTER
000	2SB709-R	MIX		2SD601-R	INVERTER
428	230103-K			2SD601-R	MULTIVIBRATOR

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q77	2SD601-R	MULTIVIBRATOR	Q408	2SB709A-R	V_HOLD
Q78	2SDG01-R	INVERTER	Q409	2SB709A-R	AMP.
Q79		EMITTER FOLLOWER	Q410	2SB709A-R	AMP.
Q80	2SD601-R	MIX	Q411	2SB709A-R	AMP.
Q81	2SD601-R	MIX	Q412		AMP.
Q82	2SD601-R	MIX	Q413	2SB709A-R	AMP.
Q83	2SD601-R	INVERTER	Q414	2SC1685-R	AVR.
Q84	2SD601-R	TEST ON	Q451	2SC1505	V. DRIVE
Q85	2SD601-R	BLACK LEVEL CLAMP	Q452	2SC2168	V. OUT
Q86	2SD601-R	AMP.	Q453		V. OUT
Q87	2SD601-R	EMITTER FOLLOWER			
Q88	2SD601-R	INVERTER	Q481	2SD601A-R	AMP.
	2SD601-R	INVERTER		2SD601A-R	AMP.
Q89	· ·	RGBON	11	2SD601A-R	SYNC SEPARATOR
Q90	2SD601-R			2SD601A-R	
Q91	2SD601-R	SQUARE WAVE	∆ Q510	2SB709A-R	
		GENERATOR	M WOLL	230709A K	SHUT DOWN
Q92	2SB709-R	V. BLANKING PULSE	A 0512	2SD601A-R	
		GENERATOR	Q551		AMP.
Q93	2SD601-R	V. BLANKING PULSE	Q553		SYNC SEPARATOR
		GENERATOR	Q559	1	INVERTER
Q95	2SD601-R	RGB ON	Woos	25060 TA-R	
Q3O1	2SD601-R	SWITCHING CONTROL	Q601	2SD601-R	PHASE SHIFT
9302)	Q602	2SB709-R	APC FILTER SWITCH
Q3O3	2SB709-R	SYNC CLAMP	Q603	2SD601-R	BUFFER
Q304	2SB709-R	[]	Q604	2\$D601-R	IDENT GAIN SWITCH
Q305	2SD601-R	ÉMITTER FOLLOWER	Q605	2SD601-R	
4303	230001 1		Q671	2SD601-R	SECAM KILLER SWITCH
0306	2SD601-R	BUFFER	Q672	1	SECAM KILLER SWITCH
	2SD601-R	BUFFER	Q673		TRAP SWITCH
Q307	2SD601-R	AMP.	Q674		SECAM KILLER SWITCH
Q308		AMP.	Q675	· ·	SWITCHING
Q309 Q310	2SD601-R 2SD601-R	BUFFER	11 .	2SD601-R	50 Hz/60 Hz SWITCH
		VIDEO AMP.	0701	2SD601A-R	WAVEFORM SHAPING
	2SD601-R	VIDEO AMP.		2SD601A-R	WAVEFORM SHAPING
	2SB709-R	BUFFER		2SD601A-R	AMP.
	2SB709-R	BUFFER		2SD601A-R	EMITTER FOLLOWER
	2SD601-R		11 '	2SD601A-R	EMITTER FOLLOWER
Q315	2SB709-R	C-Y MATRIX (R)	4706	250601A-K	EWITTER FOLLOWER
0316	2SB709-R	J	Q707	2SD601A-R	EMITTER FOLLOWER
	2SD601-R	1)	Q708	2SD601A-R	EMITTER FOLLOWER
	2SB709-R	C-Y MATRIX (G)	11	2SD601A-R	EMITTER FOLLOWER
	2SB709-R		11	2SD601A-R) H. PARABOLA
	2SD601-R	K	11 "	2SD601A-R	WAVE AMP.
Q320	230001-K		1		
0224	2SB709-R	C-Y MATRIX (B)	0714	2SD601A-R	EMITTER FOLLOWER
	2SB709-R		11 '	2SD601A-R	SWITCHING
	2SB709-R 2SD601-R	BUFFER	11 '	2SD601A-R	EMITTER FOLLOWER
		SWITCHING	11 '	2SD601A-R	INVERTER
	2SD601-R	SWITCHING	11	2SD601A-R	AMP.
Q325	2SD601-R	SWITCHING	4/18	ZJUOVIA-K	CWII.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q719	2SD601A-R	EMITTER FOLLOWER	Q1010	2SC1685-Q	PHSTER OFF SW.
	2SD601A-R	1	11	2SC1685-Q	
	2SB709A-R		11	2SA564A	
	2SD601A-R		11	2SC1685-Q	
	2SD601A-R		11	2SC1685-Q	SYNC. SEPARATOR
	2SB709A-R	and the second s	11	2SC1685-Q	
Q725	2SD601A-R	CORNER CORRECTION	1	2SC1685-Q	J
Q726	2SD601A-R	WAVE GENERATOR	Q1207	2SC1685-Q	1)
Q727	2SD601A-R		Q1208	2SC1685-Q	
Q728	2SB709A-R		Q1209	2SC1685-Q	
	2SD601A-R		11	2SC1685-Q	
Q730	2SD601A-R		11 '	2SC1685-Q	
Q731	2SB709A-R)	Q1212	2SC1685-Q	VIDEO SEPARATOR
Q732	2SD601A-R	SWITCHING	Q1213	2SC1685-Q	THE SELANATOR
- 1	2SB709A-R	EMITTER FOLLOWER	Q1214	2SC1685-Q	· .
Q734	2SB709A-R	OVER CORRENT			
		PROTECT	Q1215	2SC1685-Q	
Q735	2SD601A-R	OVER CORRENT	Q1216	2SC1685-Q	1 1
		PROTECT	Q1217	2SA564-R	
Q736	2SD601A-R	EMITTER FOLLOWER	Q1218	2SA564-R	
Q737	2SB709A-R	EMITTER FOLLOWER			
Q738	2SD601A-R	SWITCHING	Q1219	2SC1685-Q	SWITCHING CONTROL
Q739	2SD601A-R	H. SAW TOOTH WAVE	Q1220	2SC1685-Q	SYNC. INVERTION SW.
Q740	2SD601A-R	EMITTER FOLLOWER	Q1221	2SC1685-Q	SYNC. INVERTION SW.
Q741	2SD601A-R	EMITTER FOLLOWER	Q1222	2SC1685-Q	SYNC, SEPARATION
Q742	2SD601A-R	EMITTER FOLLOWER	Q1401	2SC1573-Q	VOLTAGE COMPENSATOR
	•		Q1402	2SC1573-Q	LINEALITY CORRECTION
Q981	2SD601A-R	KEYSTONE CORRECTION	Q1403	2SC1505	HV-DRIVE
Q982	2SD601A-R	SIDE PIN CORRECTION	Δ01404	2SD1457A	HV-REGULATOR
Q983	2SD601A-R	AMP.	ΔΩ1405	2SC1573-Q	HIGH VOLTAGE
Q984	2SD601A-R	EMITTER FOLLOWER			REGULATOR
Q985	2SD601A-R		∆ Q1406	2SC1685-R	HIGH VOLTAGE REGULATOR
0000	2SD601A-R	OVER CORRENT	01407	2SD1175	HV-REGULATOR
	2SD601A-R	PROTECT	ΔQ1408		HIGH VOLTAGE
1	2SB709A-R	1	AU1406	2501573-Q	
	2SD601A-R	SIDE EDGE CORRECTION	A 01400	2SC1573-Q	REGULATOR
	2SB709A-R	1)	AQ1409	25C1573-Q	HIGH VOLTAGE REGULATOR
		CORNER CORRECTION	Q1501	2SC1573-R	
Q991	2SB709A-R	WAVE GENERATOR		2SC1573-R	KEYSTONE AMP.
1	2SD601A-R	ÁMP.	1	2SC1573-R	[J
	2SD601A-R	EMITTER FOLLOWER	1	2SC1573-R	1
	2SD601A-R	EMITTER FOLLOWER	1 1	2SC1573-R	SIDE PINCUSHION
	2SD601A-R	EMITTER FOLLOWER		2SC1573-R	∫ AMP.
-255			1 1	2SA879-P	REGULATOR
01001	2SA564A	EMITTER FOLLOWER	1 '	2SA879-P	REGULATOR
	2SC1685-Q	RGB/COMP OFF	1 1	2SC1573-R	RIPPLE FILTER
	2SC1685-Q	RGB ON		2SC1573-R	RIPPLE FILTER
	25A564A	COMP ON		2SD1457A	PINCUSHION AMP.
	2SD1273	AVR	1 i	2SC1573-R	AMP.
	230 (2/3	T - T - T - T - T - T - T - T - T - T	4.5.2	2301373-K	

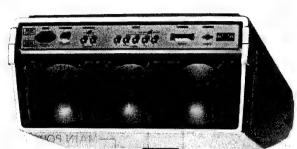
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q1513	2SC1573-R	AMP.		TJS118930	36P CONNECTOR
Q1514	2SC1685-R	AMP.		TJS148500	CONNECTOR
		H-DIRVE		TJS168440	3P SHORT PLUG
Q1551	2SC1505	H. OUT		TJS168960	2P CONNECTOR
Q1552	2SD1175	l II		103100300	ZI COMITECTOR
Q1601	2SC1685-R	INVERTER		TJS168970	3P CONNECTOR
Q1602	2SC1685-R	INVERTER		TJ\$168980	4P CONNECTOR
Q1603	2SD1346	INVERTER		TJS168990	5P CONNECTOR
Q1701	2SC1819M	ROUT		TJS169010	CONNECTOR
Q1801		GOUT		TJS169020	8P CONNECTOR
Q1901	2SC1819M	BOUT		TJ\$169030	10P CONNECTOR
Q9001	2SC1573B	REGULATOR		TJS169040	12P CONNECTOR
43001	25010100			TJS169050	CONNECTOR (15P)
00000	2SC1573B	REGULATOR		TJS169061	2P CONNECTOR
		12V REGULATOR		TJS169071	CONNECTOR
Q9101		SWITCHING DRIVE		TJS169081	CONNECTOR
Q9201				TJS169081	CONNECTOR 10P
Q9202		SWITCHING OUT			CONNECTOR
	2SC3507	SWITCHING OUT		TJS169131	
Q9301		SWITCHING DRIVE		TKG139964	LENS (R/G)
	2SB1071	SWITCHING DRIVE		TKG139965	LENS (B)
	2SC3507	SWITCHING OUT		TKK130719	LENS CAP
	2SD1273	17V AVR	1	TKN13511	FAN NET
Q9402	2SB941	-17V AVR		TKP1311512-1	CONVER DOOR
Q9403	2SD1273	12V AVR		TKP1311532-2	FRONT PANEL
Q9404	1	27V REGULATOR		TKR23340	FAN GUARD
				TKR23400	FAN METAL
	OTHERS	[]		TKR23410	PLATE
				TKR23430	METAL FLAME (L)
	EMCCOSEOM	3P CONNECTOR	!	1 1111120 100	1
	1 F MC20328M		l	TKR23440	METAL FLAME (R)
	EMCSO352M FBP-12A24LZD	I I		TKR23440	METAL FLAME (R)
	FBP-12A24LZD	DC FAN		TKR23450	METAL FLAME
		DC FAN MODEL NAME PLATE		TKR23450 TKR23520	METAL FLAME CALAR
	FBP-12A24LZD TBM130160	DC FAN MODEL NAME PLATE (PT-102N)		TKR23450 TKR23520 TKP1311522	METAL FLAME CALAR OPERATION DOOR
	FBP-12A24LZD	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE		TKR23450 TKR23520 TKP1311522 TKY131701-1	METAL FLAME CALAR OPERATION DOOR UPPER CABINET
	FBP-12A24LZD TBM130160 TBM130161	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN)		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET
	FBP-12A24LZD TBM130160	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE		TKR23450 TKR23520 TKP1311522 TKY131701-1	METAL FLAME CALAR OPERATION DOOR UPPER CABINET
	FBP-12A24LZD TBM130160 TBM130161	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN)		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN)		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (R DEFLECTION YOKE (B
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (R DEFLECTION YOKE (B
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON DOOR LOCK SWITCH		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (R DEFLECTION YOKE (B) CRT SOCKET COVER
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911 TES4583	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON DOOR LOCK SWITCH SPRING		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066 TNP51568BZ	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (R DEFLECTION YOKE (B CRT SOCKET COVER CIRCUIT BOARD F CIRCUIT BOARD Q
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911 TES4583 TES7151	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON DOOR LOCK SWITCH SPRING SPRING		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066 TNP51568BZ TNP51569BZ	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (R DEFLECTION YOKE (B CRT SOCKET COVER CIRCUIT BOARD F CIRCUIT BOARD Q CIRCUIT BOARD P
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911 TES4583 TES7151 THE600	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON DOOR LOCK SWITCH SPRING SPRING BOLT		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066 TNP51568BZ TNP51569BZ TNP51570CZ	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (R DEFLECTION YOKE (B CRT SOCKET COVER CIRCUIT BOARD F CIRCUIT BOARD Q CIRCUIT BOARD K
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911 TES4583 TES7151 THE600 THE757	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON DOOR LOCK SWITCH SPRING SPRING BOLT BOLT		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066 TNP51568BZ TNP51569BZ TNP51570CZ TNP52504AZ	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (R CRT SOCKET COVER CIRCUIT BOARD F CIRCUIT BOARD Q CIRCUIT BOARD P CIRCUIT BOARD K CIRCUIT BOARD V
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911 TES4583 TES7151 THE600 THE757 THW70023W	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON DOOR LOCK SWITCH SPRING SPRING BOLT BOLT WASHER		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066 TNP51568BZ TNP51569BZ TNP51570CZ TNP52504AZ TNP52907	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (R DEFLECTION YOKE (R CRT SOCKET COVER CIRCUIT BOARD F CIRCUIT BOARD Q CIRCUIT BOARD K CIRCUIT BOARD K CIRCUIT BOARD R
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911 TES4583 TES7151 THE600 THE757 THW70023W THW70024	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON DOOR LOCK SWITCH SPRING SPRING BOLT BOLT WASHER		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066 TNP51568BZ TNP51569BZ TNP51570CZ TNP52504AZ	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (R CRT SOCKET COVER CIRCUIT BOARD F CIRCUIT BOARD Q CIRCUIT BOARD P CIRCUIT BOARD K CIRCUIT BOARD V
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911 TES4583 TES7151 THE600 THE757 THW70023W THW70024 TJS1A5060	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON DOOR LOCK SWITCH SPRING SPRING BOLT BOLT WASHER WASHER CRT SOCKET		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066 TNP51568BZ TNP51569BZ TNP51570CZ TNP52504AZ TNP52907 TNP55165	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (B CRT SOCKET COVER CIRCUIT BOARD F CIRCUIT BOARD P CIRCUIT BOARD K CIRCUIT BOARD K CIRCUIT BOARD R CIRCUIT BOARD R CIRCUIT BOARD A
	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911 TES4583 TES7151 THE600 THE757 THW70023W THW70024 TJS1A5060 TJS1A8220	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON POWER BUTTON DOOR LOCK SWITCH SPRING SPRING BOLT BOLT WASHER WASHER CRT SOCKET 25P CONNECTOR		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066 TNP51568BZ TNP51569BZ TNP51570CZ TNP52504AZ TNP52907	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (R DEFLECTION YOKE (B CRT SOCKET COVER CIRCUIT BOARD F CIRCUIT BOARD P CIRCUIT BOARD K CIRCUIT BOARD K CIRCUIT BOARD C CIRCUIT BOARD R CIRCUIT BOARD R CIRCUIT BOARD A
Δ	FBP-12A24LZD TBM130160 TBM130161 TBM130205 TBM130204 TBM17036-1 TBX1386500 TBX1550302 TEK17911 TES4583 TES7151 THE600 THE757 THW70023W THW70024 TJS1A5060	DC FAN MODEL NAME PLATE (PT-102N) MODEL NAME PLATE (PT-102GN) MODUL NAME PLATE (PT102AN) MODEL NAME PLATE (PT-102SN) NAME PLATE (PT-102SN) NAME PLATE SELECTOR BUTTON POWER BUTTON DOOR LOCK SWITCH SPRING SPRING BOLT BOLT WASHER WASHER CRT SOCKET		TKR23450 TKR23520 TKP1311522 TKY131701-1 TKY131801-1 TLY15229F TLY15230F TLY15231F TMM15205 TNP100066 TNP51568BZ TNP51569BZ TNP51570CZ TNP52504AZ TNP52907 TNP55165	METAL FLAME CALAR OPERATION DOOR UPPER CABINET BOTTOM CABINET DEFLECTION YOKE (G DEFLECTION YOKE (B CRT SOCKET COVER CIRCUIT BOARD F CIRCUIT BOARD P CIRCUIT BOARD K CIRCUIT BOARD K CIRCUIT BOARD R CIRCUIT BOARD R CIRCUIT BOARD A

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	TNP55169	CIRCUIT BOARD M		TJC6320	FUSE HOLDER
	TNP55180	CIRCUIT BOARD G	N1401	XANT343	NEON LAMP
	TNP60975CB	CIRCUIT BOARD LR	11	TSE1827	RELAY
		CIRCUIT BOARD LG		1321021	11227
	TNP60976CB	CIRCUIT BOARD LB	S1	ESD32170	TERMINATER RESISTOR
	TNP60977CB	CIRCUIT BOARD X	31	23032170	SWITCH
	TNP100265AA	CIRCUIT BOARD D	52	ESD32170	SYNC./G SELECTOR
Ï	TNP62344AZ	CIRCUIT BOARD TR1			SWITCH
	TNP62345ZA	CIRCUIT BOARD TR2	510	TSE392	NORMAL/SERVICE
	TNP62346ZA	CIRCUIT BOARD Z		102002	SWITCH
	TNP62358ZA		S1201	ESD3228	SYNC. INVERTION
	TNP62368ZA	CIRCUIT BOARD HI	31201	2300220	SWITCH
	TNP62369ZA	CIRCUIT BOARD H2	53001	TSE10418	POWER SWITCH
	TNP62372ZA	CIRCUIT BOARD Y		ESD32176	BLUE SELECTOR
			30002		SWITCH
:	TNP66417AZ	CIRCUIT BOARD C			3111 311
	TNP66418	CIRCUIT BOARD J	62002	TSE10417	INPUT SELECTOR
	TNX13013	H.V. DISTRIBUTER	33003	13610417	SWITCH
	TNX13017	FOCUS PACK	67000	TCFOOO	RASTER OFF SWITCH
	TPC1341201	OUTER CARTON	11	TSE389	RASTER OFF SWITCH
		(PT-102N)	57003	TSE389	RASTER OFF SWITCH
	TPC1341203	OUTER CARTON		707000	- A
		(PT-102GN)	11	TSE389	RASTER OFF SWITCH
	TPC1341204	OUTER CARTON	III .	EVQRBAL10	TV/VTR SWITCH
•		(PT-102SN)	11	ESD32170	TEST SWITCH
	TPC1341205	OUTER CARTON	11	TSE182	SYSTEM SWITCH
	,, 0,01,123	(PT-102AN)	▲ S9001	ESB99577V	MAIN POWER SWITCH
	TPD131066	CUSHION (UPPER)			OLIA DO CIVITALI
	TPD131067	CUSHION (UPPER)	11	TSE960	GUARD SWITCH
	TPD132066	CUSHION (BOTTOM)	X601		CRYSTAL OSCILLATO
	TPD132067	CUSHION (BOTTOM)	X602	l .	CRYSTAL
	TPE 174054	SEET		TKZ178116	LOCK SCREW
	TQB510046	INSTRUCTION BOOK		TKX132801	LENS GRIL
lack	TSX3189	POWER SUPPLY CORD		THE765	SCREW
<u> </u>	13/3/03	(PT-102N)		TMX139818	LENS SPACER
Δ	TSX3105	POWER SUPPLY CORD	11		(ONLY FOR 50" R/B)
<u></u>	13/3103	(PT-102GN)	11	TMX13917	LENS SPACER
A	TSX3197	POWER SUPPLY CORD			(ONLY FOR 50" G)
Δ	13/319/			TMX13920	LENS SPACER
	1	(PT-102AN)			(ONLY FOR 70" R/B)
Δ	TSX5119	POWER SUPPLY CORD		TMX13919	LENS SPACER
		(PT-102SN)			(ONLY FOR 70" G)
\triangle	TXFCRTRFLZ	PICTURE TUBE (R)	11	TMX13922	LENS SPACER
Δ	TXFCRTGFLZ	PICTURE TUBE (G)		1 IVIX 13922	(ONLY FOR 120" R/B)
lack	TXFCRTBFLZ	PICTURE TUBE (B)		TMV42021	LENS SPACER
	TXFKRO1BE6	METAL ASS, Y		TMX13921	
	XNG10B	NUT			(ONLY FOR 120" G)
	XTS3+12BFZ	SCREW		THN2986T	WASHER
	THT950-2	SCREW		TKR23420	FIXING METAL
	XWB10B	WASHER			
	XWH10	WASHER			
	XYN3+C6S	SCREW			
<u></u>		FUSE 250V 3.15A			
12	TPD139177	CARTON			
	11.01391//	3/111-071	11		

ORDER NO. VED88100095A2

Service Ma





Colour Video Projector PT-102Y/GY

chassis No. Q5

GY U.K. Only

Please file and use this service manual together with the service manual for Model No. PT-102N/GN/AN/SN. Order No. VED86090024C3 and the supplement manual for Model No. PT-102N/GN/AN/SN, Order No. VED88030077S1.

Specifications

Power Source:

AC 220V ~ 240V, 50/60 Hz (PT-102Y)

AC 240V, 50 Hz (PT-102GY)

Power Consumption:

189W

Projection Tube:

7 inch specially developed high-Brightness

liquid cooled CRTs (R, G, B).

Lenses:

Double Focus; Three F1.0 f145

Lenses (HYBRID)

Resolution:

Video..... 650 TV Lines (typical) RGB...... 1000 TV Lines (typical)

S-Video Input Level:

Line in/out Level:

RGB Input Level:

R٠

 $1 \pm 0.3 \text{Vp-p} 75\Omega$ or high impedance $0.7 \pm 0.3 \text{Vp-p} 75\Omega$

Y: $1 \pm 0.3 \text{Vp-p} 75\Omega$, C: 0.286 Vp-p

G:

 $0.7 \pm 0.3 \text{Vp-p} 75\Omega$

(G/SYNC: 1 ± 0.3 Vp-p 75Ω)

 $0.7 \pm 0.3 \text{Vp-p} 75\Omega$ $H \cdot H/V$: 0.3 ~ 6V, high impedance

0.3 ~ 6V, high impedance

Screen Size: Throw Distance: 1270 ~ 3048 mm (50 ~ 120 inches) 1270 mm (50 inches) Picture size:

1670 mm (65 3/4 inches)

1829 mm (72 inches) Picture size: 2210 mm (87.0 inches)

2540 mm (100 inches) Picture size:

3037 mm (119 19/32 inches)

3048 mm (120 inches) Picture size:

3635 mm (143 3/32 inches)

650 lumens (typical) at white peak

Operating Ambient

Light Flux:

Dimensions:

Temperature:

Supplied Accessories:

 $32^{\circ}F \sim 104^{\circ}F (0^{\circ}C \sim +40^{\circ}C)$

Operating Ambient Humidity:

20% ~ 80% AC Cord (PT-102Y)

AC Mains Lead (PT-102GY)

Mounting Kit (1 set)

TMX13917, TMX13919 SPACER G:

B, R: TMX13918, TMX13920

576 mm (22 11/16 inches) Width:

606 mm (23 29/32 inches) Depth: 290 mm (11 13/32 inches) Height:

77 lbs. (35 kg) Mass (weight):

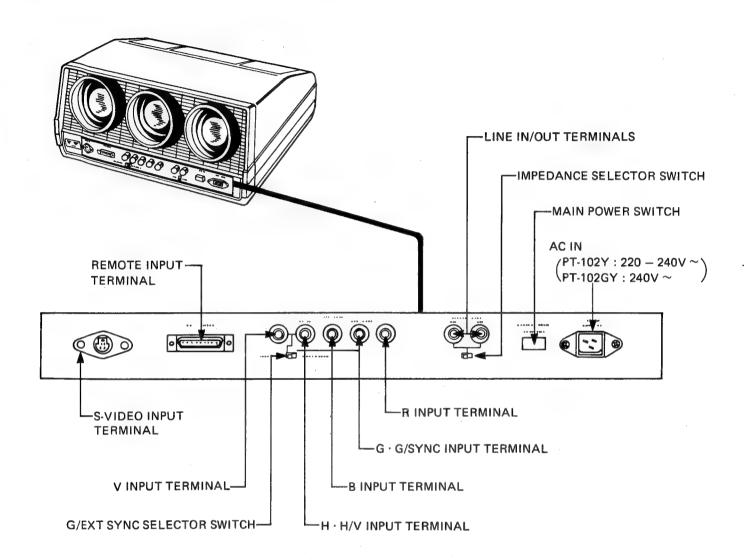
Specifications are subject to change without notice, Weight and dimensions shown are approximate.

Panasonic

Matsushita Electric Industrial Co., Ltd. Central P.O. Box 288, Osaka 530-91, Japan

PT-102Y/GY

LOCATION OF CONTROLS



CHANGE OF REF. NO.

Please change the Ref. No. on A-Board to the Ref. No. 3000 series.

Application	Part No.		
A-Board	TNP100911		
Parts	All Parts : Ref. No. 300 series and 600 series		
Example	R301 — R3301 C601 — C3601 D301 — D3301		



CHANGE OF PARTS LIST

• This parts list indicates the differences between; PT-102N/GN and PT-102Y/GY.

Ref. No.	Part No.		Description			
1161, 110.	PT-102N/GN	PT-102Y/GY		Doscriptio	, ,1	
RESISTOR	S				, ,	
R1	ERD25FJ750					
R3	ERD25FJ750					
R4	ERD25FJ750					
R5	ERD25FJ750					
R3612	ERJ8GCZJ395	ERJ8GCYJ125	М	1.2M OHM,	J,	
R617	ERJ8GCYJ183			-	-	
R1264	ERD25TJ681			-		
R1269	ERD25TJ330	ERD25FJ1R0K	С	1 OHM,	J,	
R1270	·	ERD25FJ750K	С	75 OHM,	J,	•
R3008	ERD25FJ103	ERD25FJ822K	С	8.2K OHM,	J,	,
R3009	EVJFMAEA4B53	EVJFNAEA4B14	CONT	ROL 10K OHMB		
R3400		ERJ8GCYJ102	М	1K OHM,	J,	
R3401		ERJ8GCYJ102	М	1K OHM,	J,	
R3403		ERJ8GCYJ104	М	100K OHM,	J,	,
R3404		ERJ8GCYJ273	М	27K OHM,	J,	,
R3405		ERD25FJ750K	С	75 OHM,	J,	•
R3701		ERJ8GCYJ104	М	100K OHM,	J,	
R3702		ERJ8GCYJ222	М	2.2K OHM,	J,	1
R3703		ERJ8GCYJ333	M	ззк онм,	J,	
R3704		ERJ8GCYJ104	М	100K OHM,	J,	•
R3705	A	ERJ8GCYJ391	М	390 OHM,	J,	
R3706		ERJ8GCYJ332	М	3.3K OHM,	J,	1
R3707		ERJ8GCYJ683	M	68K OHM,	J,	•
R3708		ERJ8GCYJ104	M	100K OHM,	J,	1
R3709		ERJ8GCYJ333	M	ззк онм,	J,	1
R3710	-	ERJ8GCYJ104	M	100K OHM,	J,	1
R3711		ERJ8GCYJ391	М	390 OHM,	J,	1
R3712		ERJ8GCYJ332	М	3.3K OHM,	J,	
R3713		ERJ8GCYJ683	М	68K OHM,	J,	1
R3714		ERJ8GCYJ104	М	100K OHM,	J,	
R3715		ERJ8GCYJ333	М	ззк онм,	J,	1
R3716		ERJ8GCYJ104	M	100K OHM,	J,	1
R3717		ERJ8GCYJ391	М	390 OHM,	J,	1
R3718		ERJ8GCYJ332	М	3.3K OHM,	J,	1
R3719		ERJ8GCYJ683	М	68K OHM,	J,	1
R3723		ERJ8GCYJ391	М	390 OHM,	J,	
R3724		ERJ8GCYJ332	М	3.3K OHM,	J,	1
R3725		ERJ8GCYJ683	М	68K OHM,	J,	1
R3727		ERD25FJ750K	С	75 OHM,	J,	1

PT-102Y/GY

Ref. No.	Part No.		Description			
	PT-102N/GN	PT-102Y/GY	Description			
R3728		ERJ8GCYJ222	M	2.2K OHM,	J,	1/8\
R3729		ERJ8GCYJ154	M	150K OHM,	J,	1/8\
CAPACITO	RS		'			
C3608	ECQM1H272JV	ECQM1H472JV	Р	4700PF,	J,	50
C3690		ECUX1H103KBM	С	0.01UF,	Κ,	50
C3691		ECUX1H103KBM	С	0.01UF,	Κ,	50
C3692		ECUX1H102KBM	С	1000PF,	Κ,	50
C3693	<u> </u>	ECUX1H103KBM	С	0.01UF,	Κ,	50
C3694		ECUX1H103KBM	С	0.01UF,	Κ,	50
C3695		ECUX1H103KBM	С	0.01UF,	K,	50
C3696		ECUX1H821KBM	С	820PF,	Κ,	50
COIL						
L3630		ELT10Z327	COIL			
DIODES						
D3311		MA151K	DIODE	-		
D3678		MA151K	DIODE			
D3679		MA1110	DIODE			
TRANSISTO	ORS					
Q3330		2SD601AR	TRAN	SISTOR		
Q3681		2SD601AR	TRAN	SISTOR		
Q3682		2SD601AR	TRAN	SISTOR		
Q3683		2SD601AR	TRAN	SISTOR		:
Q3684	A	2SD601AR	TRAN	SISTOR		
Q3685		2SD601AR	TRAN	SISTOR	, <u></u>	
Q3686		2SD601AR	TRAN	SISTOR		
Q3687	<u></u>	2SD601AR	TRAN	SISTOR		
Q3688		2SD601AR	TRAN	SISTOR		
Q3701		2SD601AR	TRAN	SISTOR		
RELAY					·	
RL3701		TSE1865	RELA	Y		
TERMINAL						
JK3001		TJS2A8760	S-VIDI	EO TERMINAL		
OTHERS						
	TKP1311532-2	TKP1311532-4	FRON	T PANEL		
	TQB510046	TQB510076	INSTR	UCTION BOOK		
	TNP55165	TNP100911	A BOA	RD		
	TNP55168	TNP55168AZ	T BOA	ARD.		
	TNP55180	TNP55180AZ	G BOA	ARD.		
		TNP100912	E BOA	RD	···,	
	TNP55167	TNP55167AZ	S BOA	RD		

Ref. No.	Part No.				
	PT-102N/GN	PT-102Y/GY	Description		
MODEL NA	ME PLATE				
	TBM130160	TBM130334	PT-102Y		
	TBM130161	TBM130336	PT-102GY		
OUTER CA	RTON				
	TPC1341201	TPC1341206	PT-102Y		
	TPC1341203	TPC1341208	PT-102GY		

CHANGE OF ADJUSTMENTS

Refer to section 6 on page 15.
 PT-102N/GN

6. VERTICAL HEIGHT ADJUSTMENT

2) VIDEO MODE

- 1. Receive a PAL Phillips pattern signal.
- Adjust the Video V-Size control VR (R428) to achieve a pattern height of 1957 mm.
- Set the Input signal selector SW. (\$3003) to VIDEO and receive an NTSC monoscope pattern signal.
- 4. Adjust the NTSC Sub V-Size control VR (R432) to achieve a pattern height of 1957 mm.

3) RGB MODE

- 1. Set the Input signal selector SW. (S3003) to RGB.
- 2. Receive an RGB signal from an RGB signal generator.
- Adjust the RGB V-Size control VR (R437) to achieve a pattern height of 1957 mm,

PT-102Y/GY

6. VERTICAL HEIGHT ADJUSTMENT

2) VIDEO MODE

- 1. Receive a PAL Phillips pattern signal.
- 2. Adjust the Video V-Size control VR (R428) to achieve a pattern height of (1631 mm.)
- 3. Set the Input signal selector SW. (\$3003) to VIDEO and receive an NTSC monoscope pattern signal.
- 4. Adjust the NTSC Sub V-Size control VR (R432) to achieve a pattern height of (1631 mm.) Change

3) RGB MODE

- 1. Set the input signal selector SW. (S3003) to RGB.
- 2. Receive an RGB signal from an RGB signal generator.
- 3. Adjust the RGB V-Size control VR (R437) to achieve a pattern height of 1631 mm. Change

Refer to section 7 on page 15 and 16. PT-102N/GN

7. HORIZONTAL WIDTH ADJUSTMENT

2) VIDEO MODE

- 1. Receive an PAL Phillips pattern signal.
- Adjust the Video H-Size control VR (R1541) to achieve a pattern width of 2609 mm.

3) RGB MODE

- 1. Set the Input signal selector SW. (S3003) to RGB.
- 2. Receive an RGB signal from an RGB signal generator.
- Adjust the RGB H-Size control VR (R1536) to achieve a pattern width of 2609 mm.

PT-102Y/GY

7. HORIZONTAL WIDTH ADJUSTMENT

2) VIDEO MODE

- 1. Receive an PAL Phillips pattern signal,
- Adjust the Video H-Size control VR (R1541) to achieve a pattern width of 2174 mm.) — Change

3) RGB MODE

- 1. Set the Input signal selector SW, (S3003) to RGB.
- 2. Receive an RGB signal from an RGB signal generator.
- 3. Adjust the RGB H-Size control VR (R1536) to achieve a pattern width of 2174 mm. Change



CHANGE OF SCHEMATIC DIAGRAM

- For A/G/T/E-Board sections, Refer to this manual only.
- For other Board sections, Refer to the service manual for PT-102N/GN.

(G/T-BOARD Sections) ← Video Signal

Note:

1. RESISTOR

For G/T/E-Board sections, all resistors are carbon 1/4W resistor and for A-Board section, all resistors are carbon 1/8W resistor, unless otherwise noted the following marks. Unit of resistance is OHM (Ω) (K= 1,000, M = 1,000,000).

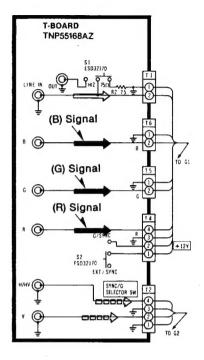
A : Solid

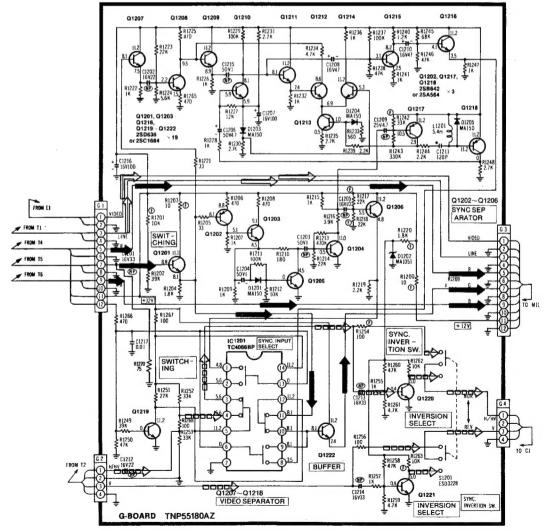
☐ : Wire Wound (F) : Non-Flamble

: Fixed Metal Film

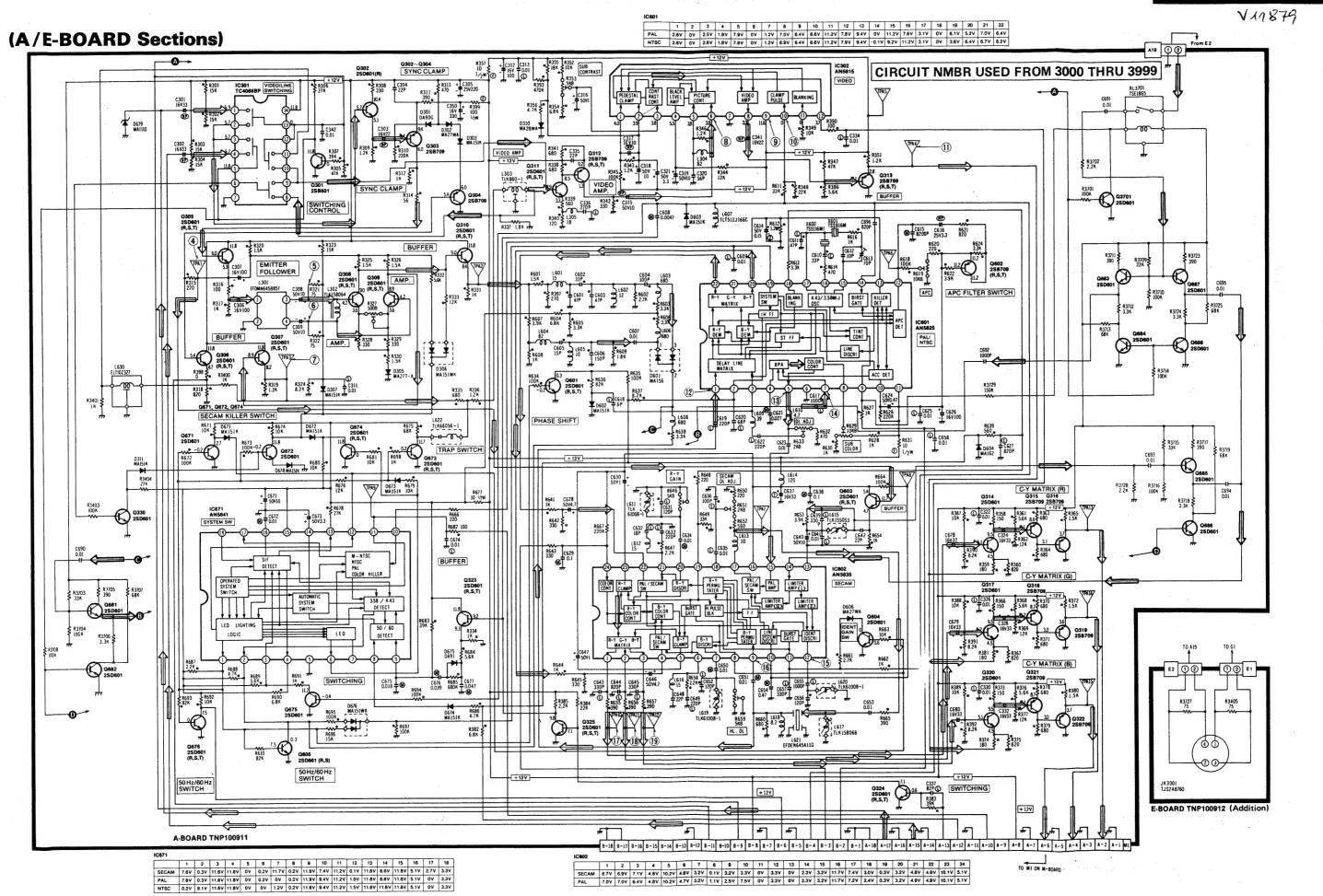
⊗ : Fuse
● : Metal Oxide

□ : Lead Less Type





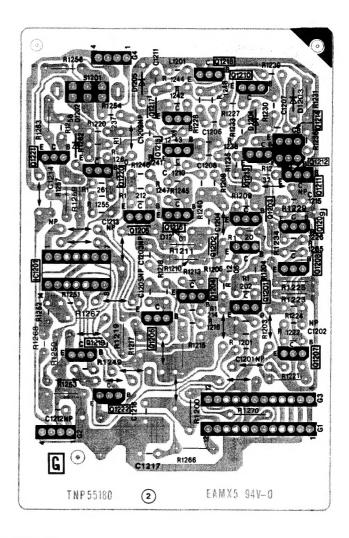
PT-102Y/GY



PT-102Y/GY PT-102Y/GY

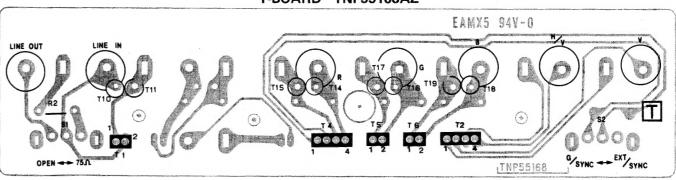
● For A/G/T/E-Boards, Refer to this manual only ● For other Boards, Refer to the service manual for PT-102N/GN. A-BOARD TNP100911 (FOIL SIDE)

G-BOARD TNP55180AZ

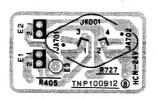


A-BOARD TNP100911 (COMPONENT SIDE)

T-BOARD TNP55168AZ



E-BOARD TNP100912



CHIP TRANSISTOR PIN CONNECTION

